

## **FACULTY DETAILS PROFORMA**

|                                                                                                |           |                                                                                                                    |       |           |       |                                                                                     |
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| Title                                                                                          | Dr.       | First Name                                                                                                         | Sonal | Last Name | Linda | Photograph                                                                          |
| Designation                                                                                    |           | Assistant Professor                                                                                                |       |           |       |  |
| Address Office                                                                                 |           | University of Delhi Plot No 5, Benito Juarez Marg, South Campus, Anand Niketan, New Delhi, Delhi-110021.           |       |           |       |                                                                                     |
| Address Residence:                                                                             |           | New Delhi                                                                                                          |       |           |       |                                                                                     |
| Phone No                                                                                       | Office    | 011-2411 0490                                                                                                      |       |           |       |                                                                                     |
|                                                                                                | Residence | -                                                                                                                  |       |           |       |                                                                                     |
| Mobile                                                                                         |           | -                                                                                                                  |       |           |       |                                                                                     |
| Email                                                                                          |           | <a href="mailto:lindasonal@aryabhatacollege.ac.in">lindasonal@aryabhatacollege.ac.in</a> ,<br>lindasonal@gmail.com |       |           |       |                                                                                     |
| Web-Page                                                                                       |           | <a href="https://aryabhatacollege.ac.in/">https://aryabhatacollege.ac.in/</a>                                      |       |           |       |                                                                                     |
| Educational Qualifications                                                                     |           |                                                                                                                    |       |           |       |                                                                                     |
| Degree                                                                                         |           | Institution                                                                                                        |       |           | Year  |                                                                                     |
| Ph.D.                                                                                          |           | Jawaharlal Nehru University, New Delhi                                                                             |       |           | 2020  |                                                                                     |
| M.Tech                                                                                         |           | Jawaharlal Nehru University, New Delhi                                                                             |       |           | 2014  |                                                                                     |
| MCA                                                                                            |           | Jawaharlal Nehru University, New Delhi                                                                             |       |           | 2011  |                                                                                     |
| B.Sc.                                                                                          |           | St. Xavier's College, Ranchi                                                                                       |       |           | 2008  |                                                                                     |
| Career Profile                                                                                 |           |                                                                                                                    |       |           |       |                                                                                     |
| From 13.10.2015 to till date working as Assistant Professor at Aryabhata College.              |           |                                                                                                                    |       |           |       |                                                                                     |
| Administrative Assignments                                                                     |           |                                                                                                                    |       |           |       |                                                                                     |
| Teacher In Charge, Computer Science Dept., Aryabhata College (2017-2018, 2019-2020, 2023-2024) |           |                                                                                                                    |       |           |       |                                                                                     |
| Convener, Anti-Ragging Committee, Aryabhata College (2021-2023)                                |           |                                                                                                                    |       |           |       |                                                                                     |
| Convener, ICT Committee, Aryabhata College (2021-2022)                                         |           |                                                                                                                    |       |           |       |                                                                                     |
| Member, Prospectus Committee, Aryabhata College (2021-2022)                                    |           |                                                                                                                    |       |           |       |                                                                                     |
| Member, Discipline Committee, Aryabhata College (2016-2023)                                    |           |                                                                                                                    |       |           |       |                                                                                     |
| Member, Academic Planning Committee, Aryabhata College (2018-2025)                             |           |                                                                                                                    |       |           |       |                                                                                     |
| Member, Library Committee, Aryabhata College (2017-2018, 2019-2020)                            |           |                                                                                                                    |       |           |       |                                                                                     |
| Member, Workload Committee, Aryabhata College (2017-2018, 2019-2020, 2023-2024)                |           |                                                                                                                    |       |           |       |                                                                                     |
| Member, Admission Committee, Aryabhata College (2017-2018, 2019-2020, 2023-2024)               |           |                                                                                                                    |       |           |       |                                                                                     |
| Member, Admission Grievance Committee, Aryabhata College (2018-2019)                           |           |                                                                                                                    |       |           |       |                                                                                     |
| Member, GE coordination Committee, Aryabhata College (2018-2019)                               |           |                                                                                                                    |       |           |       |                                                                                     |
| Member, Magazine Committee, Aryabhata College (2017-2018, 2021-2023)                           |           |                                                                                                                    |       |           |       |                                                                                     |
| Member (2016-2017, 2023-2025), Convenor (2023-2024) Website Committee, Aryabhata College       |           |                                                                                                                    |       |           |       |                                                                                     |

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| <b>Areas of Interest / Specialization</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Artificial Intelligence and Machine Learning Techniques                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Subjects Taught</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Database Management System, IT Fundamentals, Office Automation Tools, Programming using C++, Python Programming, Computer System Architecture, Microprocessor, Data Mining, Data Structure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Research Guidance</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Minor Projects of UG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Publications Profile</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <p>I. Linda, S. (2024). A State-of-the-Art Review on the Implications of ChatGPT in Educational Practices and Research. <i>Educational Perspectives on Digital Technologies in Modeling and Management</i>, 1-24.</p> <p>II. Kumar, R., Maheshwari, S., Sharma, A., Linda, S., Kumar, S., &amp; Chatterjee, I. (2023). Ensemble learning-based early detection of influenza disease. <i>Multimedia Tools and Applications</i>, 1-21.</p> <p>III. Linda, S., &amp; Kumar, R. (2023). A SWOT Analysis Framework for Integrating AI in Indian Knowledge System. In <i>Special Issue Seminar Proceeding on Indian Knowledge System: Nurtient of Science, Society and Culture</i>. Kutap, Vol. 7, 217-225.</p> <p>IV. Linda, S., Minz, S., &amp; Bharadwaj, K. K. (2020). Effective Context-Aware Recommendations Based on Context Weighting Using Genetic Algorithm and Alleviating Data Sparsity. <i>Applied Artificial Intelligence</i>, 34(10), 730-753.</p> <p>V. Linda, S., Minz, S., &amp; Bharadwaj, K.K. (2019) Fuzzy-genetic approach to context-aware recommender systems based on the hybridization of collaborative filtering and reclusive method techniques. <i>AI Communications</i>, Vol. 32(2), pp. 125-141.</p> <p>VI. Linda, S., &amp; Bharadwaj, K. K. (2019). A genetic algorithm approach to context-aware recommendations based on spatio-temporal aspects. In <i>Integrated Intelligent Computing, Communication and Security, Studies in Computational Intelligence</i>, Vol. 771, pp. 59-70. Springer, Singapore.</p> <p>VII. Linda, S., &amp; Bharadwaj, K. K. (2018). A Decision Tree Based Context-Aware Recommender System. In <i>International Conference on Intelligent Human Computer Interaction</i>, Lecture Notes in Computer Science, Vol. 11278, pp. 293-305. Springer, Cham.</p> <p>VIII. Linda, S., &amp; Bharadwaj, K. K. (2016). A fuzzy trust enhanced collaborative filtering for effective context-aware recommender systems. In <i>Proceedings of First International Conference on Information and Communication Technology for Intelligent Systems</i>: Vol. 2, pp. 227-237. Springer, Cham.</p> |
| <b>Conference Presentations</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <p>I. Linda, S. (2024, October). A Comparative Study of Various Regression Models for Diamond Price Prediction. International Conference on “Emerging Frontiers in Mathematical and Computational Sciences (EFMCS-2024)” organized by the Department of Mathematics, North-Eastern Hill University, Shillong, Meghalaya.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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| <p>II. Linda, S. (2024, March). A SWOT Analysis Framework for Integrating AI in Indian Knowledge System. International Conference on "Indian Knowledge System: Nutrient of Science, Society and Culture" organized by Savitri Bai Fule Government Post Graduate College, Chakia, Chandauli, Uttar Pradesh.</p> <p>III. Linda, S. (2024). Retinal Eye Disease Detection Using Optimized Convolution Neural Networks. 8th International Conference on "Digital Transformation in Business: AI, Sustainability and Economic Resilience".</p> <p>IV. Linda, S., &amp; Bharadwaj, K. K. (2019). A genetic algorithm approach to context-aware recommendations based on spatio-temporal aspects. <i>Integrated intelligent computing, communication and security</i>, 59-70. <b>[Best Paper Award]</b></p> <p>V. Linda, S., &amp; Bharadwaj, K. K. (2018). A decision tree based context-aware recommender system. In <i>Intelligent Human Computer Interaction: 10th International Conference, IHCI 2018, Allahabad, India, December 7–9, 2018, Proceedings 10</i> (pp. 293-305). Springer International Publishing.</p> <p>VI. Linda, S., &amp; Bharadwaj, K. K. (2016). A fuzzy trust enhanced collaborative filtering for effective context-aware recommender systems. In <i>Proceedings of First International Conference on Information and Communication Technology for Intelligent Systems: Volume 2</i> (pp. 227-237). Springer International Publishing.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Research Projects (Major Grants/Research Collaboration)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Awards and Distinctions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| UGC NET JRF qualified (DEC 2014)<br>GATE qualified (2012)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Association With Professional Bodies</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Other Activities</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <ul style="list-style-type: none"> <li>• Successfully completed the Short term Programme/Faculty Development Programme on "Research Methodology and Quantitative Analysis" under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by Indian Institute of Technology, Kharagpur from 10-17 March, 2025.</li> <li>• Attended online the NEP 2020 Orientation &amp; Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by Central University of Punjab, Bathinda from 3-12 March, 2025.</li> <li>• Attended online one-week short term programme on "Artificial Intelligence in Research: Tools, Techniques, and Trends" under Malaviya Mission Teacher Training Programme (MMTTP) of University Grants Commission (UGC) in collaboration with Department of Computer Science &amp; Technology, Central University of Punjab and Organized by MMTTC- Central University of Punjab from 13th January, 2025 to 18th January, 2025.</li> <li>• Attended online 2-week Refresher Course in Mathematics on "Foundation Course in Vedic Mathematics" from 31 March to 13 April, 2024 organized by TLC, Ramanujan College under the Ministry of Education sponsored Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMNTT).</li> <li>• Successfully completed a 4-week Faculty Development Programme on Python for Data Science organized by SWAYAM NPTEL from Jul-Aug 2021.</li> <li>• Attended Online two - week inter-disciplinary refresher course/faculty development programme on "Research Methodology and Data Analysis" from 17 - 31 May, 2021 organized by TLC, Ramanujan College under the Ministry of Education sponsored Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMNTT).</li> <li>• Attended Online two - week refresher course/faculty development programme in statistics on the theme "Applications of Statistical Techniques in Real World" (01 - 15 May, 2021) organized by TLC, Ramanujan College under the Ministry of Education sponsored Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMNTT).</li> </ul> |

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- Participated in Online Induction Training/Orientation Programme for Faculty in Universities/Colleges/Higher Educational Institutions under the Ministry of Education sponsored Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) [ 10th November to 09th December 2020].
- Participated in Two-week FDP programme on Managing Online Classes and Co-creating Moocs 3.0 organized by TLC, Ramanujan College under the Ministry of Education sponsored Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) [25th July to 10th August, 2020].
- Participated in Five Day International Conference on “Recent Trends in Mathematics and Its Applications to Graphs, Networks and Petri Nets (ICRTMA-GPN-2020) organized by JNU, New Delhi, 20<sup>th</sup>-24<sup>th</sup> July, 2020.
- Attended Five days FDP on “Machine Learning and Its Applications using Python”, 29<sup>th</sup> June-3<sup>rd</sup> July, 2020.
- Attended FDP on “Python and Emerging Trends in Machine Learning”, 2<sup>nd</sup>-6<sup>th</sup> June, 2020
- Participated in One-week online FDP on “Big Data Tools”, 18<sup>th</sup>-23<sup>rd</sup> May, 2020.
- Participated in Skill Enhancement Programme on “Python for Data Science”, 11<sup>th</sup>-17<sup>th</sup> May, 2020.