Format for Curruculum Vitae

1. Personal Information

- **Full Name:** Dr. Divya
- **Designation:** Assistant Professor
- **Department/Discipline:** Engineering & Technology
- **Date of Birth:** 18-09-1988
- **Gender:** Female
- **Nationality:** Indian
- **Address for Correspondence:** 6444, C6, Vasant Kunj, New Delhi 110070
- **Mobile Number:** 8010262609
- **Email ID:** divya@gurugramuniversity.ac.in
- **LinkedIn/Research Profile (if any):** Google scholar id: https://scholar.google.com/citations?user=EoNnQVUAAAAJ&hl=en

2. Career Objective

To pursue a challenging academic position where I can integrate teaching, research, and curriculum development to advance knowledge and support institutional growth

3. Educational Qualifications

Ph.D., NTA NET, M.Tech. (Computer Engineering), B. Tech. (Computer Science & Engineering).

4. Teaching Experience

- **Total Teaching Experience:** 14+ Years

5. Research Experience

- Areas of Specialization: Data Analytics, Natural Language Processing, Federated Learning, Assistive Technologies
- Research Projects Handled --
- Research Guidance (Ph.D./M.Phil.) --

6. Publications

(A) Research Papers in Journals

1. D. Jatain, V. Singh, and N. Dahiya, "A contemplative perspective on federated machine learning: Taxonomy, threats & vulnerability assessment and challenges," Journal of King Saud University - Computer and Information Sciences, no. June, 2021, https://doi.org/10.1016/j.jksuci.2021.05.016
2. D. Jatain, V. Singh, and N. Dahiya, "Blockchain Base Community Cluster-Federated Learning for Secure Aggregation of Healthcare Data," Procedia Computer Science, vol. 215, pp. 752–762, 2022, https://www.sciencedirect.com/science/article/pii/S1877050922021482
3. Divya Jatain, V. Singh, and N. Dahiya, "A multi-perspective micro-analysis of popularity trend dynamics for user-generated content," Social Network Analysis and Mining, vol. 12, no. 1, p. 147, Oct. 2022, https://link.springer.com/article/10.1007/s13278-022-00969-7
4. D. Jatain, V. Singh, and N. Dahiya, "An exploration of the causal factors making an online course content popular & engaging," International Journal of Information Management Data Insights, vol. 3, no. 2, p. 100194, 2023, https://www.sciencedirect.com/science/article/pii/S2667096823000411
5. Jatain D, Singh V. (2023) An Approach for Aspect Extraction Using Double Embedding Technique based Machine Learning Model. Indian Journal of Science and Technology. 16(19): 1408-1412, https://doi.org/10.17485/IJST/v16i19.62
6. D. Jatain, M. Niranjanamurthy, and P. Dayananda, "A Hybrid Bio-inspired Fuzzy Feature Selection

Approach for Opinion Mining of Learner Comments," *SN Computer Science*, vol. 5, no. 1, p. 135, Jan. 2024, doi: 10.1007/s42979-023-02526-1.

7. A. Gupta, R. Gandhi, N. Jatana, D. Jatain, S. K. Panda, and J. V. N. Ramesh, "A Severity Assessment of Python Code Smells," *IEEE Access*, vol. 11, pp. 119146–119160, 2023, doi: 10.1109/ACCESS.2023.3327553.
8. D. Jatain, et al, "Adaptive Prefix Filtering for Accurate Code Clone Detection in Conjunction with Meta-learning", SN Computer Science, vol. 5:789, July. 2024, doi: https://doi.org/10.1007/s42979-024-03140-5
9. D. Jatain, S. Malik, G. Dhand, "Tri-factorized Modular Hypergraph Autoencoder for Multimodal Semantic Analysis", SN Computer Science, vol. 5, no. 7: 867, Sep. 2024, doi: https://doi.org/10.1007/s42979-024-03210-8
10. D. Jatain, et al, "Deep Non-negative Matrix Factorization Model for Clustering-based Image Denoising", Vol. 06, No.4(2024)1889-1896, doi: 10.24874/PES.SI.25.03A.022

(B) Books / Book Chapters

D. Jatain, Vikram Singh and N. Dahiya, "Blockchain-based federated machine learning for solving IoT security problems," in Artificial Intelligence, Blockchain, Computing and Security: Volume 1 , Taylor & Francis, 2022.Blockchain

(C) Conference Papers

1. A Novel Approach for Predicting the Popularity of User-created Content Using Geographic-Economic and Attention Period Features" is presented in International Conference on Artificial Intelligence and Applications 2020.
2. A Novel Community Cluster Federated Machine Learning Method for Secure & Private Survival Rate Prediction of (COVID-19) Patients" is presented in International Conference on Integration of Advanced Technologies for Industry 4.0", KGC College of Technology.
3. Computational Intelligence Techniques for Big Data Analytics: A Contemplative Perspective, International Conference on Recent Innovations in Computing-ICRIC2021, Central University of Jammu.

(D) Patents

1	Method and System for Handling Liquid in a Tank in IoT Environment	Indian Patent Office	Published on 26-03-2021
2	IoT Based Waste Management System	Indian Patent Office	Published on 04-02-2022
3	Compact Electronic Single Braille Cell Display Device	Indian Patent Office	Granted on 06-02-2023
4	An Ornamental Wearable Fragrance Dispensing Device	Indian Patent Office	Published on 14-03-2025

7. Skills

Artificial Intelligence, Machine Learning, Federated Learning, Data Analytics, Natural Language Processing, Python Programming, Research Writing, Curriculum Development, Student Mentoring, Statistical Analysis, and Academic Presentation