

EXPERIENCE

Project Associate Department of Computational and Data Sciences, Indian Institute of Science (IISc)	Bangalore, IN Feb 2025 - May 2025
Project Associate Department of Physics, Indian Institute of Science Education and Reasearch (IISER)	Tirupati, IN Feb 2023 - Feb 2024

EDUCATION

Indian Institute of Technology (IIT) Madras M.Sc. in Physics, CGPA: 7.53/10.00	Chennai, IN 2020 - 2022
Gujarat University B.Sc. in Physics, CGPA: 7.30/10.00	Ahmedabad, IN 2017 - 2020

RESEARCH PROJECTS

PaperMatch: Advanced Scientific Article Recommendation System Independent Project	Feb 2024 - Present
Developed an AI-driven recommendation system for scientific articles on arXiv, using embedding models, Gradio, and Milvus for efficient vector database management. Conference Proceedings & Website .	
Fine-Tuning IBM Granite Models for Scientific Machine Learning Project Associate — Supervisor: Prof. Sashikumaar Ganesan	IISc Bangalore Feb 2025 - May 2025
Improved domain-specific performance and adaptability for scientific applications.	
BrainConnectML: EEG to Graph-Based Machine Learning Project Associate — Supervisor: Dr. Aradhana Singh	IISER Tirupati Feb 2023 - Feb 2024
Created a complete pipeline that transforms EEG data into functional brain networks, extracts graph features, and applies machine learning for classification tasks through various methods at each step.	
Brain Network Dynamics using Coupled Kuramoto Oscillators Project Associate — Supervisor: Dr. Aradhana Singh	IISER Tirupati Feb 2023 - Feb 2024
Investigated brain network synchronization using a modified Kuramoto Model on various network structures. Analyzed the impact of network topology on synchronization and chaotic dynamics.	

SKILLS

- **Programming Languages:** Python, C++, SQL.
- **ML Frameworks:** Pytorch, TensorFlow, scikit-learn.
- **Data Analysis Tools:** MATLAB, MNE, NetworkX, NumPy, pandas, matplotlib, Numba, git, HPC, GPU.
- **Cloud Computing:** AWS, GCP, Azure, Oracle.
- **Typesetting:** L^AT_EX, MS Office, LibreOffice.
- **Languages:** English (Proficient), Hindi (Native).

ACHIEVEMENTS & CERTIFICATIONS

- Achieved a percentile score of **98** in [GATE Data Science and Artificial Intelligence](#). 2025
- Achieved a percentile score of **95.5** in [GATE Computer Science and IT](#). 2025
- Achieved a percentile score of **95** in [GATE Data Science and Artificial Intelligence](#). 2024
- Achieved a percentile score of **95** in [GATE Physics](#), conducted nationwide in India. 2023