

EXPERIENCE

Project Associate Department of Computational and Data Sciences, Indian Institute of Science (IISc)	Bangalore, IN Feb 2025- Present
Project Associate Department of Physics, Indian Institute of Science Education and Research (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

Fine-Tuning IBM Granite Models for Scientific Machine Learning Project Associate Supervisor: Prof. Sashikumaar Ganesan Improved domain-specific performance and adaptability for scientific applications.	IISc Bangalore Feb 2025 - Present
PaperMatch: Advanced Scientific Article Recommendation System Independent Project 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 .	Feb 2024 - Feb 2025
BrainConnectML: EEG to Graph-Based Machine Learning Project Associate Supervisor: Dr. Aradhana Singh 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.	IISER Tirupati Feb 2023 - Feb 2024
Brain Network Dynamics using Coupled Kuramoto Oscillators Project Associate Supervisor: Dr. Aradhana Singh Investigated brain network synchronization using a modified Kuramoto Model on various network structures. Analyzed the impact of network topology on synchronization and chaotic dynamics.	IISER Tirupati Feb 2023 - Feb 2024

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