Mitanshu Sukhwani

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EXPERIENCE

Project Associate Tirupati, IN

Department of Physics, Indian Institute of Science Education and Reasearch (IISER) Tirupati 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

Ahmedabad, IN

B.Sc. in Physics, CGPA: 7.30/10.00 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.

RedactNLP: Secure Data Redaction

Independent Project Feb 2024 - Present

Utilized advanced Optical Character Recognition and Named Entity Recognition models to efficiently redact Personally Identifiable Information from text and images, ensuring data privacy in PDFs.

BrainConnectML: EEG to Graph-Based Machine Learning

IISER Tirupati

As Project Associate, Supervisor: Dr. Aradhana Singh

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

IISER Tirupati

As Project Associate, Supervisor: Dr. Aradhana Singh

Feb 2023 - Feb 2024

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

ACHIEVEMENTS & CERTIFICATIONS

- 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: LATEX, MS Office, LibreOffice.
- Languages: English (Proficient), Hindi (Native).
- Achieved a percentile score of **99.95** in **GATE**Data Science and Artificial Intelligence. 2024
- Achieved a percentile score of 99.95 in GATE Physics, conducted nationwide in India.
 2023
- IBM Applied DevOps Engineering Professional Certificate.
- Google Cybersecurity Professional Certificate. 2024

References available upon request.