Arijit Chanda

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Education

Indian Institute of Technology (Indian School of Mines) Dhanbad Expected May 2026
Bachelor of Technology in Electrical Engineering *Dhanbad, Jharkhand*
- **Relevant Coursework:** Data Structures and Algorithms (C++), Prob & Stat, Computer Programming (C)

Bethany Mission School May 2020 - June 2022
Central Board of Secondary Education (Class XII) *Raiganj, West Bengal*
- **Relevant Coursework:** Computer Systems and Organisation, Python Programming, Computer Networks

Sarada Vidya Mandir March 2008 - May 2020
Central Board of Secondary Education (Class X) *Raiganj, West Bengal*
- **Relevant Coursework:** Computer networking, Python Programming, C/C++

Projects

IntelliDoc: Your Health Buddy | *React.js*, *MongoDB*, *Node.js*, *Express.js*, *Flask*, *OpenCV*, *Tensorflow* GitHub
- A web application enabling users to input health information via images or manual entry, providing accurate, personalized diagnoses and analytical charts.
- Features an interactive medical chatbot (MediBuddy) for engaging users and offering personalized health advice.
- Implements machine learning algorithms to analyze user health data and predict the likelihood of various diseases or health conditions.

Movie Recommender System | *Flask*, *TensorFlow*, *scikit-learn* GitHub
- Developed a robust movie recommender system leveraging machine learning techniques, specifically utilizing cosine distance, to calculate similarity between movies. The system suggests 7-10 similar movies based on the user's previously watched selections, incorporating factors such as genres, actors, casts, and plot overviews.
- Engineered an advanced algorithm that analyzes various features of films, including genre, actor information, and plot details, to generate accurate recommendations.

Indentifying Landmarks on Mars | *OpenCV*, *PyTorch*, *TensorFlow*, *scikit-learn* GitHub
- Developed a robust classification model utilizing TensorFlow and transfer learning techniques to identify distinct landmarks, such as craters and dark dunes, on the Martian surface. Employed data augmentation methods to expand the dataset and enhance model generalization. Utilized OpenCV and Matplotlib for visualization purposes.
- Attained exceptional performance metrics with a train and validation accuracy exceeding 92%, signifying the model's proficiency in accurately identifying Martian surface features.

Technical Skills

Languages: C/C++, Python.
Technologies: TensorFlow, PyTorch, Keras, Flask, scikit-learn, Matplotlib, Numpy, Pandas, Git/GitHub, OpenCV.
Concepts: Artificial Intelligence, Machine Learning, Neural Networks, Deep Learning, Natural Language Processing (NLP), LLM, Object-Oriented Programming System (Oops), Data Structures and Algorithms (DSA).

Achievements

- Codeforces: Maximum Rating- **1322 (Pupil)** Profile.
- CodeChef: Maximum Rating- **1742 (3 star)** Profile.
- Active **contributor** on Kaggle platform Profile.
- Solved **500+ questions** on different coding platforms and online judges.

Social Engagements

Organisor: Parakram'24 (Sports-fest) .
Sports-Engagements: Football, Chess.