

Debayudh Mitra

+91-9836578565 | debayudhmitra@gmail.com | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

EDUCATION

Institute of Engineering & Management

Bachelor of Technology in Computer Science Engineering, CGPA: 9.21

Kolkata, WB

Jul 2020 - Jul 2024

EXPERIENCE

R&D Intern

SystemOnSilicon Corporation

Kolkata, WB

Jan 2023 - Apr 2023

- Developed a chatbot using Flask and Django by scraping data from 10+ websites, increasing the accuracy of the chatbot's responses by 35%
- Engineered and deployed a recommendation system and search engine on Render via Fast API, resulting in a 30% boost in user retention and a 20% increase in user satisfaction score

Research Intern

IEM Innovation & Entrepreneurship Development Cell [Link](#)

Kolkata, WB

Sep 2021 - Dec 2021

- Developed a Traffic Sign Recognition project using PyTorch, achieving a high accuracy score of 96% during testing and validation
- Engineered visualizations and training sets to enhance model performance, integrated into a Flask web app in Python for seamless integration and real-time recognition capabilities

PROJECTS

Multimodal LLM Medical Diagnostics App | Python, Gemini Pro Vision, Streamlit

[Link](#)

- Implemented a medical diagnostics app that analyses user-uploaded images (e.g. X-rays, MRI scans) to generate precise findings, next steps, and tailored recommendations
- Leveraged Gemini 1.5 Vision for multimodal analysis of healthcare images in Python, integrated with Streamlit for a user-friendly interface, resulting in expedited diagnostics and healthcare insights

IMDB Sentiment Analysis | Deep Learning, NLP

[Link](#)

- Designed sentiment analysis project for IMDB using PyTorch, NLTK, and deep learning techniques, attaining 87% accuracy in classifying movie reviews
- Employed Numpy, Pandas, Plotly for 10+ data visualizations, enhancing interpretation of sentiment analysis outcomes, and facilitating actionable insights

Predicting Customer Satisfaction | Machine Learning, MLOps

[Link](#)

- Implemented a customer satisfaction project using a tree-based approach, boosting prediction accuracy by 87%
- Optimised Random Forest Regressors and Decision Trees using Scikit-learn to derive actionable insights, facilitating informed decision-making and business outcomes

ACHIEVEMENTS

Rakuten Rakathon 2023: Secured finalist position among top 100 competing against 3636 registered teams

Titan Company TECH NXT Future Wear Techathon 2023: Ranked top 11 ranking among 6351 teams

Mercer Mettl AI Arena 1.0: Achieved top 10 position

CharmHealth CodeRx Hackathon: Finalist among 1560 total teams

Convolution 8.0 2023: 3rd Position in SparkHack 7.0 organized by JU

TECHNICAL SKILLS

Languages: Java, Python, SQL

Frameworks: PyTorch, TensorFlow, Keras, Scikit-learn, Django, Flask, Matplotlib, Seaborn, Plotly, NLTK

Databases and Clouds: MySQL, OracleDB, MongoDB, GCP, AWS, Azure

Developer Tools: Jupyter, Google Colab, VS Code, Git, GitHub, Firebase, Power BI, Tableau, Excel

VOLUNTEER EXPERIENCE

IEM Coding Club AIML Lead, GDSC IEM AIML Core Team, PR & Outreach Core Team, MSC IEM

AIML Core Team: Led 5+ technical events impacting 300+ developers