Aslesha Mohanty

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Education

Manipal Institute of Technology   July 2023 - July 2027

BTech Computer Science and Engineering (Data Science)
GPA: 8.61/10 | Courses: DSA, DBMS, OOPs, Math for ML

Experience

Undergraduate Research Assistant, Manipal Institute of Technology   Jan 2025 – Present

- Working as an undergraduate research assistant on behavioral analytics using AI to profile criminal activities.

Web Development Intern, Orange Strokes   Dec 2024 – Jan 2025

- Worked as a web development intern at Orange Strokes during its revamp and rebuild phase, gaining firsthand experience in the startup process. Initially, I collaborated on UI/UX then transitioned to web development, working with React and Next.js to build and optimize scalable applications.

Projects

MediVault

- A full-stack medical records management system with role-based access and secure data storage, booking appointments andmedical reminders using twilio. Built with Flask, PostgreSQL, and JWT-based authentication. Currently enhancing it with potential AI features for improved data analysis and predictions.

Stock Price Prediction

- Analyzed historical stock data using EDA to uncover trends and predict future prices with Random Forest and LSTM models. Model performance is evaluated using RMSE.

SpendWise

- A web application for personal finance management, built with React and Express. Includes ML-driven features for expense tracking, predictive budgeting, predicting impulse purchases and financial data visualization. Placed 6 in a hackathon.

Technologies

Languages: Python, JavaScript, C, C++, Java, SQL

AI/ML: PyTorch, TensorFlow, Scikit-Learn, Hugging Face, LangChain, OpenCV

Libraries: NumPy, Pandas, Matplotlib, Seaborn, NLTK

Web/Tools: Flask, Streamlit, React, REST APIs, Git, PostgreSQL, Power BI, Web Scraping (Beautiful Soup)

Publications

- **"Artificial Intelligence in Credit Scoring: Enhancing Financial Inclusion & Opportunities"**
  International Research Journal of Education and Technology (IRJEdT), Vol. 08, Issue 04, pp. 2400–2407, April 2025.
  DOI: 10.5281/zenodo.15256246

Certifications

- Generative AI with Large Language Models
- 100 Days of Code: The Complete Python Pro Bootcamp
- Ordered Data Structures
- Foundations: Data, Data, Everywhere