Aniket Ranjan

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Education

Vellore Institute of Technology, Bhopal **Aug. 2022 – Aug 2026**
Bachelor of Technology in Computer Science and Engineering *CGPA: 8.2*

Technical Skills

Languages: Python, C++, SQL
Libraries: TensorFlow, PyTorch, Scikit-Learn, Pandas, NumPy, Matplotlib
Soft Skills: Problem-Solving, Research, Documentation, Cross-Cultural Collaboration, Team Leadership

Experience

Tata Steel **Jan 2025 – Feb 2025**
Data & Analytics Intern *Jamshedpur, Jharkhand*

- Collected and cleaned 87K+ multi-year weather records (2010–2020) for research, analysis, visualization, and reporting
- Created predictive features such as seasonality, alerts, and date-based signals to improve accuracy and derive insights
- Built and tuned regression models, achieving R^2=0.835, thereby improving rainfall prediction accuracy and reliability
- Designed and deployed a responsive web application for real-time rainfall prediction, alerts, and user-driven input

Projects

Housing Price Predictor | *Machine Learning Project* **April 2025**

- Implemented regression algorithms to predict house prices in Bengaluru, achieving an R^2 score of 0.85 on test data
- Applied feature engineering and hyperparameter tuning, boosting performance by 15% and enhancing model reliability
- Performed preprocessing, analysis, and visualization using Jupyter Notebook, Pandas, NumPy, and Matplotlib
- Utilized Python, Scikit-Learn, Pandas, NumPy, and Matplotlib to develop, train, and evaluate the prediction pipeline

Personalized News Recommendation Engine | *Recommendation System* **November 2024**

- Developed a recommendation system to suggest personalized news articles tailored to evolving user preferences
- Implemented model training and optimization with Scikit-Learn to achieve high recommendation accuracy
- Integrated a SQL database to store user profiles, preferences, and article metadata for scalable recommendation queries
- Utilized Python, Scikit-Learn, Pandas, NumPy, SQL, Git, and CI/CD tools to implement and deploy the entire solution

Customer Sentiment Analyzer | *Deep Learning Project* **May 2024**

- Designed an end-to-end NLP pipeline to classify, summarize, and analyze 100K+ customer reviews using LLM models
- Trained and fine-tuned deep learning models, achieving 92% accuracy and reducing manual review effort by 70%
- Automated deployment with CI/CD pipelines, GitHub Actions, Git, and Linux-based scalable infrastructure

Relevant Coursework

- Data Structures
- OOPs
- Algorithms Analysis
- Database Management
- Machine Learning
- Internet Technology
- Operating System
- Computer Networks

Leadership / Extracurricular

English Literary Association **2024-2025**
Core Member — Technical & Finance Wing *VIT Bhopal*

- Developed promotional campaigns, managed event budgets, and analyzed engagement data using Google Forms

Kennedy Lugar Youth Exchange and Study Program **2019-2020**
International Exchange Scholar *United States of America*

- Selected as one of 30 students nationwide for a fully funded U.S. Department of State cultural and academic exchange
- Represented India in the U.S., pursuing academics with community service, cultural exchange, and leadership activities

Achievements

- Awarded the prestigious Tata Millennium Scholarship by Tata Steel for outstanding academic excellence and merit
- Selected for Immersion, an elite group of top coders at VIT Bhopal, demonstrating problem-solving and coding skills
- Solved 700+ problems on LeetCode including 360 Medium (98.24 ile) and 64 Hard (94.45 ile) questions - AmazingKB
- Successfully completed the 100 Days of Code Challenge on LinkedIn, showcasing consistency and dedication
- Authored *An Adventure to the Invincible Sword* at age 14, a globally published full-length fiction novel