Utsab Raj Acharya

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Personal Summary

Aspiring AI and Data Science student skilled in Python, SQL, machine learning, and data analysis. Built projects in recommendation systems, semantic search, sports analytics, and dashboard development using real-world datasets. Experienced with exploratory data analysis, NLP fundamentals, and statistical modeling, with strong interest in applied AI systems and intelligent data-driven solutions.

Technical Skills

Programming Languages: Python, SQL, JavaScript
Data Analysis Libraries: Pandas, NumPy, SciPy
Data Visualization: Power BI, Matplotlib, Seaborn, Plotly
Machine Learning: Scikit-learn, Regression Models, Classification, NLP Basics, Recommendation Systems
Tools & Platforms: Jupyter Notebook, Git, GitHub, Excel, PostgreSQL
Core Skills: Data Cleaning, EDA, Statistical Analysis, Data Storytelling

Soft Skills

- Problem Solving
- Analytical Thinking
- Team Collaboration
- Communication
- Adaptability
- Time Management

Projects

Sales Analytics Dashboard | *Power BI* GitHub

- Built interactive **Power BI dashboard** integrating multi-source sales data to identify trends and key business insights.
- Designed **star schema model** and created KPIs using **DAX**.
- Analyzed **sales trends**, **customer segments**, and **product performance** to derive insights.

FIFA World Cup 2022 Player Performance Analysis | *EDA* GitHub

- Conducted exploratory data analysis on **FIFA player datasets using Python (Pandas) to evaluate performance metrics and player efficiency**.
- Designed statistical ranking model to identify the optimal **Best XI Team**.
- Visualized players using **Matplotlib and Seaborn** to compare performance metrics.

Graph-Based Movie Recommendation System | *Graph Theory* GitHub

- Built **graph-based recommendation engine in Python** modeling users and movies as nodes.
- Represented relationships using a **bipartite graph based on user ratings**.
- Generated personalized recommendations using connectivity patterns between similar users.
- Implemented backend functionality using **Flask**.

Semantic Search Engine for Movie Discovery | *NLP* GitHub

- Developed semantic movie search engine for interpreting natural language queries.
- Implemented **vector embeddings and cosine similarity in Python** to retrieve semantically related results.
- Designed modular pipeline for preprocessing, embedding generation, and similarity-based retrieval.

Education

B. Tech–CSE(AI) | Jain (Deemed-to-be) University | Bengaluru, India *Aug 2024 – May 2028 (Expected)*
CGPA: 9.17 / 10.0
Relevant Coursework: Data Structures, Design & Analysis of Algorithms, Statistics & Probability, Database Management Systems, Machine Learning, Artificial Intelligence, Discrete Mathematics & Graph Theory

Achievements

- Finalist in Smart India Hackathon 2025; built Renyora AI, a health assistant chatbot that answers health-related queries and recommends supplements.
- Finalist, Inceptrix Hackathon 2024, for developing NeuroLens, an AI-based system that analyzes handwriting and voice patterns to identify potential cognitive decline.
- Maintained a CGPA of 9.17/10.0 in B.Tech CSE(AI).