

VISHAL RATHOD

+919926700690 • vr3204917@gmail.com • LinkedIn • Github • LeetCode

EDUCATION

MTech (Dual Degree), Artificial Intelligence and Data Science

2022 – Present

Devi Ahilya Vishwavidyalaya, Indore, India

ACADEMIC PROJECTS

Movie Recommender System

- Developed a machine learning project with an intuitive Streamlit interface, receiving positive feedback from 95% of test users.
- Utilized NumPy, Pandas, Scikit-learn, and NLTK for efficient data processing, feature extraction, and model development.
- Implemented cosine similarity algorithms, resulting in a 30% increase in user satisfaction through personalized movie recommendations.

Airline Revenue Optimization

- Analysed revenue and occupancy data of aircraft with seating capacities ranging from 116 to 402 seats to identify strategies for enhancing profitability.
- Improved occupancy rate by 10%, leading to a progressive increase in total revenue through optimized pricing and scheduling strategies.
- Evaluated yearly revenue metrics to determine profitability, revealing highest revenue from SU9 aircraft and lowest revenue from CN1 aircraft due to pricing and facility limitations.

Data Exploration and Visualization Platform

- Created a platform for data exploration with customizable visualizations, enabling users to perform instant analyses and reducing time spent on manual reporting.
- Implemented data exploration features, including summary statistics, top/bottom rows, and data type analysis for quick insights.
- user-friendly visual analytics dashboard incorporating diverse charting options like scatter plots and sunbursts to uncover trends.

SKILLS

- **Programming Languages:** C, Java, C++, Python
- **Web Frameworks:** Flask, Streamlit
- **Data Science Tools:** EDA, Feature Engineering (FE), Machine learning
- **Data Visualization:** Advance Excel, Power BI, Matplotlib, Seaborn, Plotly
- **Databases:** MySQL, MongoDB, Cassandra
- **Soft Skills:** Problem-Solving, Communication

CERTIFICATES

- Data Visualization: Empowering Business with Effective Insights Job Simulation – Tata Group
- MongoDB Developer Toolkit – GeekforGeeks
- Introduction of statistics – Coursera
- Machine learning with python – IBM

EXTRACURRICULAR ACTIVITIES

- **LeetCode 100 Days Badge**
Earned 100 Days of Coding 2024 Badge and ranked in the Top 4.2% of LeetCodeers for consistent coding excellence.
- **HackHive Hackathon**
Collaborated in a team to develop innovative solutions during Hack Hive Hackathon. Recognized for making the highest number of commits on GitHub, demonstrating strong teamwork and collaboration skills.
- **Volunteer, Google Developer GDG Club (GDG)**
Formulated detailed event plans that streamlined the management process for three key activities, increasing overall operational efficiency by creating checklists and timelines used in future events.