

VISHAL RATHOD

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EDUCATION

M.tech (Dual Degree), Artificial Intelligence and Data Science
Devi Ahilya University, Indore, India

Graduation - June 2027

ACADEMIC PROJECTS

Movie Recommender System

- Created a comprehensive machine learning project featuring an intuitive Streamlit interface that facilitated seamless data interaction; received positive feedback from 95% of initial test users on experience effectiveness.
- Leveraged cosine similarity to measure and rank movie similarity, ensuring accurate recommendations based on content features such as genres, cast, and overview.
- Utilized libraries including NumPy, Pandas, Scikit-learn, and NLTK for efficient data processing, feature extraction, and model development, ensuring a robust and scalable system.

Medical Appointment No-Show Analysis

- Developed a data-driven solution to analyze medical appointment no-show rates, leveraging demographic, medical, and SMS reminder data.
- Identified key factors influencing no-shows and reduced rates by 12% through actionable insights and optimized scheduling.
- Delivered recommendations that improved patient attendance and operational efficiency for healthcare providers.

Bank Loan Analysis

- Developed an interactive Excel dashboard to analyze 38,856 bank loan records, visualizing key metrics like 38.6k loan applications and \$435.8 million in funded loans.
- Utilized Pivot Tables, Power Query, and Excel tools to automate data analysis and categorize loan quality (86.18% good loans, 13.82% bad loans).
- Provided actionable insights to improve lending strategies, portfolio performance, and risk management.

CERTIFICATES

- C++ Complete Training Course for Beginners 2022 – Udemy
- Data Visualization: Empowering Business with Effective Insights Job Simulation – Tata Group
- MongoDB Developer Toolkit – GeekforGeeks
- Power BI Job Simulation – PwC Switzerland

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, C, C++, Java
- **Development Tools:** Jupyter Notebook, VS Code, PyCharm, DataGrip, Kaggle, GitHub
- **Data Visualization:** Power BI, Matplotlib, Seaborn, Plotly
- **Database Management:** MySQL, MongoDB, Cassandra
- **Soft Skills:** Problem-Solving, Communication

EXTRACURRICULAR ACTIVITIES

- **LeetCode 100 Days Badge**
Earned 100 Days of Coding 2024 Badge and ranked in the Top 4.2% of LeetCode users for consistent coding excellence.
- **HackHive Hackathon**
Collaborated in a team to develop innovative solutions during HackHive Hackathon. Recognized for making the highest number of commits on GitHub, demonstrating strong problem-solving and collaboration skills.
- **Coordinator, Techfest IIT-B (Robotics Workshop)**
Managed speakers coordination and logistics for a Robotics Workshop, overseeing event flow and ensuring a seamless experience for 200+ participants.
- **Volunteer, Google Developer GDG Club (GDG)**
Actively contributed to event management, supporting GDG's initiatives and activities.