RAVI SAHU

Gwalior, Madhya Pradesh
☎ +91-8305734159 ravi786modi@gmail.com LINKEDIN GITHUB

Profile Summary

- Proven ability in analyzing and visualizing complex datasets, identifying key patterns, and deriving actionable business insights.
- Proficient in developing machine learning models and recommendation systems to optimize decision-making and enhance user experiences.
- Strong command over Python, SQL, Power BI, and Excel, enabling efficient data manipulation, reporting, and visualization.
- Experienced in AI-powered solutions, leveraging expertise in LangChain, Google GenAI, Tesseract OCR, and advanced machine learning techniques to develop innovative applications.

Relevant Coursework

- Machine Learning and Predictive Analytics • Data Visualization using Power BI, Matplotlib and Seaborn
- Database Management and SQL •Python Programming and Scripting •Statistical Analysis and Data Preprocessing

Experience

Data Science and GenAI Intern at Innomatics Research Labs (LINK) October 2024-December 2024

- Developed "SeeForMe," an AI assistant for visually impaired individuals, utilizing LangChain, Google GenAI, Tesseract OCR, and Streamlit for scene description, object detection, and text reading.
- Implemented modularized features and audio outputs to improve user interaction and accessibility.
- Built an AI-powered tool for code quality assessment, leveraging advanced language models to analyze and suggest improvements.

Data Science Intern at Prodigy InfoTech (LINK) July 2024-August 2024

- Designed a Movie Recommendation System using Python, Streamlit, and scikit-learn, providing personalized movie suggestions through an engaging and user-friendly interface.
- Focused on data preprocessing, analysis, and model optimization to ensure accurate recommendations and a seamless user experience.
- Leveraged advanced data analysis and visualization techniques to uncover meaningful insights from large datasets, driving informed decision-making and efficiency improvements.

Projects

SeeForMe : AI Assistant For Visuallt Impaired Users (PROJECT LINK)

- Developed an AI-powered assistant to aid visually impaired individuals by describing scenes, detecting objects, and reading text.
- Leveraged LangChain, Google GenAI, and Tesseract OCR to integrate advanced natural language understanding, optical character recognition, and object detection capabilities.
- Designed modular features with audio outputs for seamless user interaction and accessibility.
- Ensured functionality and user-friendliness by deploying the application on a Streamlit-based interface.

Movie Recommendation System (PROJECT LINK)

- Developed a Movie Recommendation System using Python, Streamlit, and content-based filtering for personalized suggestions..
- Leveraged pandas and scikit-learn to preprocess movie datasets and build a robust model with real-time recommendations.
- Deployed the system with an intuitive UI on Streamlit, enhancing user interaction and improving the model's usability.

Technical Skills

- Languages: Python, SQL
- Frameworks & Libraries: Machine Learning, Pandas, Numpy, Matplotlib, Seaborn, Scikit-Learn
- Tools: Power BI , MS Excel, MySQL, MS Word, MS PowerPoint
- Platforms: Google Colab, Jupyter, PyCharm, Visual Studio Code
- Soft Skills: Report Building, People Management, Excellent Communication

Education

Jiwaji University **July 2022 - July 2025 (running)**

Bachler of Science (computer science) **AGPA – 7.0** Gwalior, Madhya Pradesh