VEDULA ABHISHEK

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SUMMARY

Data Science intern with hands-on experience in developing and deploying machine learning models. Skilled in data preprocessing, analysis, and visualization using Python, Pandas, NumPy, and Streamlit. Experienced in exploratory data analysis, feature engineering, and model optimization to improve accuracy and performance. Passionate about leveraging data-driven solutions to solve real-world problems. Strong collaborator with the ability to refine algorithms, enhance predictive models, and present insights effectively.

EDUCATION

Centre for Development of Advanced Computing (Mohali)

Master Of Technology (M.Tech): Computer Science and Engineering (AI) (CGPA: 8.17/10)   Mohali,2026

Bhilai Institute of Technology (BIT Raipur)

Bachelor Of Technology (B.Tech): Computer Science and Engineering (CGPA: 8.8/10)   Raipur, 2023

WORK EXPERIENCE

Data science intern at AI Variant   **December 2023 - June 2024**

- **Improved machine learning workflows:** Streamlined data preprocessing and analysis, making model deployment more efficient and reducing processing time.

- **Built and deployed ML models:** Developed machine learning models for real-world applications using Python, Pandas, NumPy, and Streamlit, ensuring accurate data analysis and visualization.

- **Enhanced model performance:** Worked closely with the team to fine-tune algorithms, improve predictions, and optimize overall model efficiency.

- **Extracted meaningful insights:** Conducted exploratory data analysis (EDA) to uncover trends, patterns, and anomalies, helping drive data-driven decisions.

- **Documented and presented results:** Created clear reports and presentations to showcase project findings, ensuring stakeholders understood key insights and impacts.

PROJECTS

Brain Tumor Prediction (Machine Learning Model):
- Built a machine learning model to detect brain tumors with high accuracy using Python.
- Collected and processed large datasets, ensuring data quality for better predictions.
- Analyzed data to find patterns and trends, making insights easier to understand.
- Tested different classification algorithms to improve accuracy and model performance.
- Link: github

Gold Price Prediction (Forecasting Model):
- Developed a model to predict gold prices for the next 30 days, helping businesses plan ahead.
- Cleaned and analyzed historical price data to ensure accurate forecasting.
- Identified trends and patterns through data exploration and visualization.
- Created charts and reports to make price predictions easy to interpret.
- Implemented models such as ARIMA, SARIMA, and machine learning models like LSTM.
- Evaluated model performance using key metrics such as Mean Absolute Error (MAE), Mean Squared Error (MSE), and Root Mean Squared Error (RMSE).
- Deployed the final model for real-time forecasting.
- Link: github

Book Recommendation System:
- Developed a book recommendation system to suggest relevant books to users based on their preferences.
- Used collaborative filtering to identify users with similar tastes based on their ratings.
- Implemented the system in Python with libraries like Pandas and scikit-learn for data manipulation and model building.
- Deployed the model as a web application using Streamlit, enabling users to interact and receive personalized book suggestions.•
- This allows users to interact with the system and receive personalized recommendations
- Link: github

Technical Skills

- **Programming Languages: Python | MySql | R**
- **Data Analysis and Visualization: NumPy | Pandas |Data Preparation and Cleaning | Data Analysis | Data Visualization | Statistics | Exploratory Data Analysis (EDA) |Classification and Regression Algorithm | Deep Learning |Computer Vision**
- **Tools: PowerBI | Excel | Jupyter Notebook | Google Colab | VS Code**
- **Version Control: GitHub**
- **Soft Skills: Problem-Solving Quick Learning Teamwork Decision-Making**

Certificates

- **Data Science Certification, Excelr,Hyderabad**
- **Introduction to the Python, Coding Ninjas**
- **SQL Intermediate, Hackerrank**