Om Jajulwar

Linkedin : Om Jajulwar

Website : omjajulwar.dev

Email : work@omjajulwar.dev

Mobile : +91-902-823-0400

EXPERIENCE

- **First Quadrant Labs** — Mumbai, India
  Data Science Intern — *Aug, 2024 - Oct, 2024*
  - **Tech-Stack**: Keras, Matplotlib, NumPy, Pandas, Postgres, Python, Seaborn, TensorFlow
  - **Real-Time Data Analytics and Modeling**: Led the creation and implementation of real-time analytics and predictive models, improving operational efficiency by 15% and providing critical insights that significantly improved strategic decision making.
  - **Exploratory Data Analysis and Visualization**: Executed detailed exploratory data analysis (EDA) and developed informative visualizations that revealed key patterns, resulting in a 20% increase in model accuracy and aiding in the development of more refined predictive models.
  - **Machine Learning Model Deployment**: Supported the deployment and continuous monitoring of machine learning models in a production environment, contributing to a significant reduction in false positives through meticulous performance evaluation and optimization.

- **Geeks for Geeks** — Noida, India
  Front-End Intern — *Aug, 2023 - Oct, 2023*
  - **Tech-Stack**: HTML/CSS, JavaScript, MongoDB, Node.js, Python, React
  - **Student Enrollment Database Management**: Maintained and optimized databases of student enrollments, ensuring data accuracy and efficiency using SQL for seamless operation and data integrity.
  - **Enrollment Data Analysis and Forecasting**: Analyzed enrollment data to forecast and prepare for upcoming course batches, leading to improved resource allocation and strategic planning.
  - **Cross-Team Collaboration for Data-Driven Decisions**: Collaborated closely with marketing and content teams to align data insights with business objectives, enhancing communication and project outcomes.

SKILLS SUMMARY

- **Languages**: Python, SQL
- **Frameworks & Libraries**: Matplotlib, NumPy, Pandas, PyTorch, Scikit-learn, TensorFlow
- **DevOps & tools**: Excel, Power BI, Docker, MySQL, Postgres, Tableau
- **Coding Profiles**: HackerRank, Kaggle, Github

PROJECTS

- **Anomaly Detection and Event Prediction in sensor networks (July '24)** — **Source Code**:
  - Analyzed feature importance, revealing "Number of Sensor Nodes" as the most critical factor, contributing to a 25% increase in model performance.
  - Enhanced monitoring capabilities, reducing false positives by 30% through anomaly detection.
  - Designed an Anomaly Detection system with Gradient Boosting, achieving a testing R^2 of 0.9898 and MSE of 42.9771, ensuring high prediction accuracy.

- **Music Store Analysis (July '24)** — **Source Code**:
  - Built efficient SQL queries to quickly extract and analyze customer and inventory data, reducing report generation time.
  - Identifies the top spender per country, handling ties, and returns the customer with the highest total spending.
  - Determines the most popular genre by total purchases per country, highlighting the top genre based on purchase quantity.

- **Predicting Trip Duration and Analyzing Taxi Ride Patterns (Jun'24)** — **Source Code**:
  - **RNN Performance**: Achieved a MSE of 1.71 on the test set, providing a baseline for time series forecasting.
  - **LSTM Accuracy**: Recorded a slightly lower MSE of 1.67, outperforming the RNN model by approximately 2.3% in accuracy.
  - **GRU Comparison**: Delivered a comparable MSE of 1.67, showing just a 0.03% difference in performance from LSTM.

EDUCATION

- **Boston Institute of Analytics** — Mumbai, India
  Diploma in Data Science and Artificial Intelligence — *Feb, 2024 – Sep, 2024*

- **Priyadarshini Bhagwati College of Engineering** — Nagpur, India
  Bachelors in Technology; CGPA: 8.4 — *July, 2018 - July, 2022*
  Courses: Operating Systems, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Probability and Statistics.

CERTIFICATIONS AND ACHIEVEMENTS

- Click here for all the important certifications, feel free to go over my Linkedin's **"Licenses & certifications"** section for more.

- Consistently honored on the prestigious Dean's List in 2021 and 2022, embodying academic excellence and drive.