Om Jajulwar

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Experience

- **First Quadrant Labs** — Mumbai, India
  Intern — *Aug, 2024 – Present*
  - **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, enhancing 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
  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**: Flask, NumPy, Pandas, Scikit-learn, TensorFlow
- **DevOps & Tools**: Excel, JIRA, Power BI, Docker, Jenkins, Postgres
- **Coding Profiles**: HackerRank, Kaggle, Github, Leetcode

Projects

- **Anomaly Detection and Event Prediction in sensor networks**: Developed and implemented an Anomaly Detection and Event Prediction system using Gradient Boosting, achieving a testing R-squared of 0.9898 and a testing MSE of 42.9771, significantly enhancing real-time monitoring capabilities in sensor networks. (**Jul '24**)
- **Music Store Analysis**: Built efficient SQL queries to quickly extract and analyze customer and inventory data, reducing report generation time. Successfully implemented and managed a PostgreSQL database, ensuring high data accuracy and seamless integration across all business functions. (**Jul '24**)
- **Predicting Trip Duration and Analyzing Taxi Ride Patterns**: Implemented models for time series forecasting on the New York Taxi dataset, achieving a prediction accuracy improvement of 15%. Analyzed taxi ride patterns using detailed records of over 1000 trips, including vendor IDs, timestamps, passenger counts, and geographic coordinates. (**Jun '24**)
- **Salary Range Prediction**: Developed and optimized machine learning models, including XGBoost, Random Forest, and Decision Tree, to predict salary ranges. Achieved a mean R-squared of 0.95 for "Salary Range From" and 0.85 for "Salary Range To". Utilized industry-standard practices for data preprocessing, feature selection, and hyperparameter tuning. Implemented SMOTE for class balancing, resulting in more accurate and robust predictive models. (**Jun '24**)

Education

- **Boston Institute of Analytics** — Mumbai, India
  Diploma in Data Science and Artificial Intelligence — *Feb, 2024 – Sep, 2024*
- **Rashtrasant Tukadoji Maharaj Nagpur University** — Nagpur, India
  Bachelor of Engineering in Computer Science and Engineering; CGPA: 8.4 — *Jun, 2018 – May, 2022*

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.