Om Jajulwar

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EXPERIENCE

- **First Quadrant Labs** — Mumbai, India
  Intern — *Aug, 2024 – Present*
  - **Tech-Stack**: Python, TensorFlow, Keras, Pandas, NumPy Matplotlib, Seaborn, Scikit-learn, SciPy, Postgres
  - **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**: Python, SQL, TensorFlow, MongoDB, Node.js, HTML/CSS, Javascript, 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**: TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Keras, NLTK
- **DevOps & Tools**: Excel, Tableau, Power BI, Clang, Docker, Jenkins, GIT, JIRA, Postgres, MySQL
- **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^2-score 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 RNN, LSTM, and GRU 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 0.98 for "Salary Range To" using K-Fold Cross-Validation and GridSearchCV for hyperparameter tuning. Executed data preprocessing, addressing missing values, duplicates, and feature scaling with MinMaxScaler and StandardScaler. 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 – July, 2024*
  Courses: Data Analytics, Machine Learning, Deep Learning, Natural Language Processing, Data Visualization, Probability and Statistics.

- **Rashtrasant Tukadoji Maharaj Nagpur University** — 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 and Network Security.

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.