Mohana Krishna Koripella

+1 (832)-352-2024 | krishkoripella3335@gmail.com | www.linkedin.com/in/koripella-krishna

Summary

Result-oriented data science master's student with strong analytical skills. Highly competent in Python programming, SQL, and building effective visualizations using Tableau ,Power BI, and other visualization tools.

Technical Skills

Programming   : Python, Java, SQL Programming, Data Structures & Algorithms, Spring, Spring boot, MS Office
                          Suite, Git
Data Visualization   : Tableau, Power BI, Spotfire, Orange, Python Visualization Packages (matplotlib, seaborn)
ML/ DL Tools   : Supervised ML Algorithms (Regression, Random Forest, Decision Tree, KNN, Ensemble) Unsupervised ML
                          Algorithms (k-means clustering), CNN, RNN, NLP (Basics).

Education

University of Houston, Houston, TX	Jan 2023 - Dec 2025
Master of Science	Engineering Data Science	GPA: 3.934

Relevant Coursework: Intro to DS, Intro to ML, Probability & Statistics, DBMT, Information Visualization, Big data Analytics.

Vellore Institute of Technology, Vellore, India	July 2015- August 2020
Master of Technology	Software Engineering (Integrated)	GPA: 9.47

Relevant Coursework: Database Management System, Operating Systems, Discrete Mathematics Data Structures, Computer Networks.

Professional Experience

Graduate Assistant, University of Houston, Houston, USA   Jan 2024-Dec 2024

- Collaborated with directors to analyze departmental needs. Created Interactive BI dashboards for internal stakeholders, provide real time access to institutional information using tableau
- Utilized SQL queries to provide insights and leverage Database and optimized 20+ PL/SQL stored procedures.
- Employed on a transformative effort to revamp course evaluation process, introducing customization by allowing faculty to select questions they want to ask then before predefined questions.

Senior Systems Engineer-Data Analyst, Infosys PVT Ltd, Hyderabad, India   Jan 2021 –Nov2022

Skills: Python (Pandas, NumPy), SQL,Tableau, Power BI, ETL, Data Cleaning, Data Validation, Git, GitHub, Jira, Excel, Cron, Control-M

- Built Power BI/Tableau dashboards and KPIs (churn, loan approval, fraud, MAUs) used by 4 departments.
- Automated ETL with Python and SQL, cutting manual reporting by 75%.
- Migrated Excel-based compliance reports to Tableau using SQL & Git version control.
- Developed SQL queries (Oracle/SQL Server) to support compliance and audit teams.
- Ensured all work complied with Westpac's security and regulatory standards.

R&D Intern Trainee, KONE Elevators India PVT Ltd, Chennai, India   Aug2019– Aug 2020

Skills: Languages and Tools: SQL, Spring Boot, Java, Spring JDBC and Restful Services, Java selenium, React JS.

- Developed APIs to get Demographic Details of the registered users and the building and elevator details which are been set up and registered for advanced services using Spring Boot, Java, Spring JDBC and Restful Services.
- Built User Interface for Kone Utility Website using React JS and integrated with backend API's.
- Automated the testing for Internal and Production UI using Java selenium.

Projects:

IMDB Data Visualization project:

- Use Tableau to explore relationships between attributes like genre, director, cast, and runtime with IMDb ratings and earnings.
- Integrate SARIMA model results into Tableau to analyze and visualize gross revenue trends, seasonal patterns, and projections for movies across calendar years.

Oil Spill Detection using CNN and U-net:

- Built an image segmentation model using CNNs to identify oil spills in SAR imagery, achieving 95% accuracy by training on a dataset of 10,000+ images.
- Designed and generated contour masks for simplifying mapping techniques.
- Enhanced detection using algorithms like MobileNetV2 and Lime V3 Inception models, improving model performance by 20% through data Optimization.

Techie Cardia

- An IoT based solution for elderly patients suffering from Arrythmias using Arduino, Sensor Technology, Java for the backend development and Advanced Materialize CSS, react JS for WEB app development and Android programming for the mobile application.

Certification & Honors Awards

- Oracle Database SQL Certified Associate
- Cohort: Data Science for Energy Transition is Apprenticeship with National science Foundation. (May2024-June 2024)
- Academic excellence awards for 5 consecutive years (2015-2020).
- Secured 3rd place in the 2024 NSF ML Kaggle Competition by leveraging the orange software toolkit to design and implement machine learning models.