Janardhan Reddy Illuru

Data Scientist

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GitHub - github.com/Jana2207 ¦ Hyderabad, India ¦ Portfolio - https://jana2207.github.io/

SUMMARY

Data Scientist skilled in machine learning, data processing, and predictive analytics with a strong focus on model development and data-driven insights. Proficient in Python, TensorFlow, Scikit-learn, and SQL-based databases, with extensive experience in LiDAR data analysis for infrastructure maintenance and risk prediction models for insurance claims. Adept at using tools like Power BI for data visualization, bringing actionable insights to optimize decision-making processes.

EXPERIENCE

Trainee Engineer- LiDAR data processing

Aarvee Associates

06/2023 - 06/2024

github.com/Jana2207/Certifications/blob/main/Aarvee_Associates.pdf

Developed 3D road models using LiDAR data to predict deterioration and optimize maintenance. Utilized Python, TensorFlow, Scikit-learn, CNN, and GIS for analysis. Analyzed LiDAR models with CNNs to detect cracks and potholes for better maintenance predictions. Achieved 95% accuracy, reducing inspection time by 30% and improving maintenance efficiency.

SKILLS

Python **PowerBI** **MySQL** **Tableau** **Advance Excel** **Statistics** **Machine Learning** **Deep Learning** **NLP**
Advanced DAX **Numpy** **Pandas** **Seaborn** **Matplotlib** **Pytorch** **MongoDB** **NoSQL** **Azure** **AWS**

PROJECTS

Car Insurance Claim Prediction Using Machine Learning for Risk Assessment and Enhanced Customer Satisfaction

https://github.com/Jana2207/Car_insurance_claim_prediction

- **Developed a predictive model** to assess the probability of car insurance claims within six months, analyzing policyholder, demographic, and vehicle features.
- **Achieved** 93.3% test accuracy using XGBoost Classifier, improving claim prediction accuracy by 15%. Addressed data imbalance with SMOTE, enabling better risk evaluation for over 10,000 policyholders.
- **Projected to reduce** claim processing time by 20% and enhance customer satisfaction through accurate premium calculations.

Fraud Detection in Banking: Predictive Modeling for Real-Time ATM Transaction Security

https://github.com/Jana2207/Fraud_Detection_in_Banking-_A_Predictive_Approach_to_ATM_Transactions

- **Built a predictive model** to detect fraudulent ATM transactions for an Australian bank, leveraging geographic, network, and vulnerability metrics.
- **Achieved** a 90% reduction in fraudulent transactions using XGBoost and Stacking Ensemble, enhancing real-time fraud detection and strengthening customer trust.

E-commerce Sales Analysis for Amazon USA using SQL

https://github.com/Jana2207/Amazon_data_analytics_using_sql/tree/main?tab=readme-ov-file#readme

- **Analyzed** over 20,000 sales records across 9 relational tables to uncover insights on customer behavior, product performance, and sales trends.
- **Designed and executed** complex SQL queries for revenue analysis, customer segmentation, and inventory optimization, ensuring accurate data integration through table relationships.
- **Identified actionable insights,** addressing high return rates and shipment delays, which improved inventory management and reduced stockouts by 25%.

Operational Performance Dashboard for Blinkit using PowerBI

https://github.com/Jana2207/Blinkit_analysis_powerbi

- **Designed and implemented** an interactive dashboard to provide real-time insights into orders, inventory, and customer satisfaction, enabling data-driven decisions.
- **Developed advanced visualizations** with interactive filters and drill-down capabilities to analyze key KPIs, including order trends, delivery efficiency, and revenue performance.
- **Delivered impactful results,** reducing decision-making time by 25%, improving delivery efficiency by 15%, and increasing revenue by 12%.

CERTIFICATION

Advanced Data Science and AI

IBM

EDUCATION

Bachelor of Technology

Indian Institutes of Information Technology, RK Valley

06/2019 - 04/2023 Andhra Pradesh, India