

TEJASWINI PARLAPALLI

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PROFESSIONAL EXPERIENCE

Rivian Automotive, Irvine, CA– Sr. Data Scientist

Apr'23 – Present

- Implemented predictive machine learning models (Linear Regression, Random Forest, Gradient Boosting) to forecast resource shortages, reducing operational downtime by 5% and improving overall process efficiency by 12%.
- Optimized demand forecasting with predictive analytics (SVM, Bayesian methods, Linear Regression), achieving a 15% reduction in excess inventory.
- Developed Alteryx workflows delivering key KPIs to stakeholders, reducing production delays, bottlenecks and enabling faster, data-driven decisions.
- Automated cost modeling pipelines using AI tools (Cursor, GitHub Copilot, Notebook LLM, Glean Agents), improving pipeline efficiency by 30% and accelerating forecast deployment cycles.

Rivian Automotive, Irvine, CA – Data Scientist

- Enhanced allocation of shared line-side inventory using advanced ML classification models (XGBoost, LightGBM), boosting utilization by 20% and ensuring stock distribution matches teams' requirements.
- Implemented a Reinforcement Learning (Q-Learning) system to optimize inventory and production planning autonomously.
- Streamlined data from multiple systems (SAP & MES) into cloud platforms (AWS Redshift, Snowflake, Databricks) and created executive-level Tableau dashboards, improving visibility and decision-making.

Indiana University Marketing Analytics, Indianapolis, IN – Data Scientist

Aug'22 – Apr'23

- Devised Alteryx ETL workflows to improve API connector performance, accelerating data integration into BigQuery and saving 10 man-hours per week.
- Optimized marketing funnel data pipelines using Big Data tools Hive, Spark from multiple sources, including DB, APIs, and flat files, reducing data maintenance costs by 15%.
- Designed and implemented GA4 (Google Analytics 4) and Looker Studio dashboards to monitor user behavior, optimize marketing campaigns, and drive a 2% increase in website conversion.

EMC Insurance Group, Des Moines, IA – Data scientist

Jun'22 – Aug'22

- Achieved a 60% prediction accuracy for property damage risk by implementing regression models (Random Forest, Gradient Boost, XGBoost) with feature engineering, optimizing hyperparameters, and regularization methods.
- Developed interactive Power BI dashboards, providing actionable insights and identifying \$260K in faulty investments

Indiana University, Indianapolis, IN – Research Assistant

Aug'21 – Apr'22

- Spearheaded research applying ML and neural networks to predict age from real-world images, achieving 78% precision with 20% false positive rate.
- Applied NLP techniques for feature engineering on text data linked to images, including sentiment analysis and entity recognition, enhancing model performance with additional features.

Deloitte – Business Intelligence Analyst

Dec'19 – Jul'21

- Played a key role in migrating to Oracle Cloud by developing RDBMS frameworks and optimizing data processes with MySQL, Python, and Bash, cutting migration time by 3%.
- Managed multiple client requests with tight deadlines while mentoring three new hires, providing guidance and feedback.
- Performed statistical analyses (T-tests, ANOVA, correlation), achieving over 85% accuracy, delivering actionable insights for strategic decisions.

– Recognized with Spot Award

Amazon – Data scientist

Aug'19 – Dec'19

- Forecasted vendor business performance using time series analysis and scenario modeling with Clustering, resampling, and classification models, driving a 12% increase in product purchases.
- Collaborated to improve fraud detection accuracy by 20% using KNN, decision trees, preventing \$20K in potential losses.

EDUCATION

Indiana University Purdue University Indianapolis, IN – MS in Applied Data Science (GPA 3.8)

Jawaharlal Nehru Technological University, Hyderabad, IND – BS in Electrical & Electronics Engineering (GPA 4.0)

PROJECT WORK

Analysis of Airline Passenger Satisfaction. Developed statistical models, using forward and backward stepwise selection, cross-validation, and SVM, resulting in a satisfaction prediction model with 79% accuracy.

Zonal Accident Risk Prediction system: Successfully developed and deployed multiple ML models, including linear, Catboost and LGBM regression, random forest classifier, using Spark MLlib & collab to 74% accurately predict road accidents on a 700K dataset.

SKILLS

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| Certifications: | Google Analytics certification by Google, databricks certified Data Engineer professional |
| Languages & Tools: | Python, SQL, R, PHP, D3.js, CSS3, AWS (S3, Redshift, Lambda), Tableau, Git, C, Power BI, Looker Studio, Datorama, GCP, Google Big Query, Snowflake, Linux, ETL, Docker, Kubernetes, Alteryx, Kafka, Spark, Cursor, Claude, GitHub Copilot. |