

Ram Ammula

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Work Authorization: F1 OPT (Not looking for sponsorship)

Summary

Enthusiastic Data Scientist skilled in Python, R, SQL, and cloud platforms (AWS, Azure), with hands-on experience in machine learning, NLP, and predictive modeling. Passionate about transforming complex data into actionable insights through feature engineering, ETL, and data-driven decision-making.

Work Experience: Data Analyst – VAZHRAA NIRMANN.PVT.LTD India | March 2022-May 2023

As a cross-functional data analyst with 2+ years of work experience embedded in marketing, sales, finance, and construction materials management, my work focused on building 0–1 analytics and AI systems to drive cost reductions, identify revenue opportunities, and translate customer behavior into actionable strategy through both qualitative research and quantitative data.

- Boosted Forecast Accuracy by 35%: Developed predictive models using Python and Scikit-learn, improving sales and resource planning precision.
- Cut Reporting Time by 40%: Automated Tableau dashboards and Excel workflows adopted across 4+ teams for faster cross-functional decision-making.
- Reduced Procurement Costs by 18%: Built statistical cost estimation tools using SQL and Excel, driving smarter budgeting and vendor negotiation.
- Improved Inventory Planning by 20%: Trained ML models with engineered features to forecast demand based on historical and seasonal trends.
- Streamlined Data Pipelines with ETL & MLflow: Built scalable ETL workflows and implemented MLflow to monitor model performance, track experiments, and ensure reproducibility.

Projects

Retail Sales Forecasting with Deep Learning & MLflow | Mar 2025

- Developed a deep learning model (TensorFlow, Keras) to forecast retail sales using historical data. Applied feature engineering, ETL processes, and statistical modeling to improve accuracy by 32%. Monitored training and validation performance using MLflow, ensuring reproducibility and model traceability across environments.

Customer Sentiment Analysis using NLP & Cloud Deployment

- Built an end-to-end NLP pipeline with Python, NLTK, and Scikit-learn to classify customer sentiment from product reviews. Deployed the model on AWS for scalable inference. Achieved an F1-score of 88%; findings powered data-driven decision making and a 12% boost in customer satisfaction.

Broadband Plan Recommender System using ML & A/B Testing

- Engineered a predictive modeling system in Python to match users with optimal broadband plans. Applied data mining, clustering, and algorithm development to personalize recommendations, improving conversion by 28%. Validated impact through A/B testing and visualized insights via Tableau.

Skills

Python, R, SQL, Apache Spark, TensorFlow, Keras, Scikit-learn, Tableau, Power BI, MLflow, AWS, Azure, Docker, Kubernetes, Git, GitHub, CI/CD, Data Wrangling, ETL, Feature Engineering, Predictive Modeling, NLP, Deep Learning, Statistical Modeling, Data Mining, A/B Testing, Business Intelligence, Problem-Solving, Data-Driven Decision Making, Linear Algebra, Calculus, Microsoft Excel

Education

Drexel University – MS in Business Analytics (statistics and Artificial intelligence Focused), Philadelphia, PA | Sept 2023 – March 2025