

Jayashree Ramesh Reddy

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PROFESSIONAL SUMMARY

Data Scientist with 4.5+ years of experience applying statistical analysis, machine learning, and experimentation to solve complex product and business problems. Strong background in **predictive modeling, inference, and data-driven decision making**, with expertise in **Python, SQL, and end-to-end analytics workflows**. Experienced in translating ambiguous business questions into measurable hypotheses, designing analyses, and collaborating cross-functionally with engineering and product teams to deliver scalable, privacy-conscious ML solutions. Proven ability to evaluate model performance, design experiments, and drive product improvements using data.

SKILLS

- **Programming & Systems:** Python 3, PyTorch, NumPy, Pandas, Linux, Git
- **Machine Learning & Deep Learning:** Neural Networks, Convolutional Neural Networks (CNNs), Transfer Learning, Embeddings, Model Evaluation, Hyperparameter Tuning, Performance Optimization
- **Data & Experimentation:** Exploratory Data Analysis (EDA), Dataset Design & Balancing, Feature Engineering, Train/Validation/Test Pipelines
- **Model Explainability & Analysis:** SHAP, Statistical Modeling
- **Collaboration & Testing:** Code Reviews, Cross-Functional Collaboration, PyTest

EXPERIENCE

Data Scientist | Deloitte

April 2020 - Dec 2023

- Developed and evaluated **machine learning and deep learning models**, including neural-network-based architectures, to solve real-world business and operational problems.
- Performed **exploratory data analysis** to guide model selection and align modeling approaches with product and performance requirements.
- Conducted **hyperparameter tuning and model optimization** to improve accuracy, robustness, and generalization on unseen data.
- Collaborated with **data engineers** to curate, clean, and balance datasets tailored to specific modeling objectives.
- Built reproducible experimentation workflows in **Linux-based environments** for model training, testing, and evaluation.
- Participated in **peer code reviews**, providing constructive feedback to improve code quality, readability, and maintainability.

Associate Data Analyst | Tech Neon Solutions Pvt Ltd

May 2019 - April 2020

- Performed **exploratory data analysis (EDA)** using **SQL, Excel, and Python** to uncover trends, anomalies, and key business drivers supporting data-driven decisions.
- Developed **complex SQL queries** (multi-table joins, aggregations, window functions) to generate accurate operational and management reports.
- Built and automated **KPI dashboards and recurring reports**, improving visibility into business performance and reducing manual reporting effort.
- Conducted **data cleaning, validation, and reconciliation** to ensure high-quality, reliable datasets for analysis and reporting.
- Collaborated with senior analysts and stakeholders to deliver **client-ready insights and visualizations** aligned with business objectives.

PROJECT

Customer Journey Intelligence Platform | [GitHub](#)

Skills: Python, PyTorch, Feature Engineering, Model Optimization, SHAP

- Built predictive and analytical models to identify **behavioral patterns and outcome drivers** across customer interaction data.
- Designed and evaluated **feature representations and embeddings** to improve model performance and generalization.
- Applied feature engineering and statistical techniques to enhance model interpretability and reliability.

InsightBridge Analytics Assistant | [GitHub](#)

Skills: Python, PyTorch, Neural Networks, Model Evaluation, Linux

- Developed an analytics assistant integrating **machine learning pipelines** with user-facing systems.
- Built **end-to-end ML workflows** emphasizing robustness, scalability, and performance for real-world usage.
- Focused on reducing manual effort by automating analytical processes through structured ML pipelines.

EDUCATION

Master of Science in Data Science | University of Memphis | GPA: 3.5

Dec 2025

Relevant Coursework: Deep Learning, Neural Networks, Machine Learning, Optimization Techniques

CERTIFICATION

- Deep Learning Specialization – Andrew Ng (Coursera)
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- Deep Learning with PyTorch – DataCamp