Abhiram M V

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EDUCATION

University of Colorado Boulder — **Boulder, CO**
Master of Science in Data Science (GPA: 3.63/4) — August 2024 - May 2026 (Expected)

Dayananda Sagar University — **Bengaluru, India**
Bachelor of Technology in Electronics and Communication Engineering (GPA: 7.91/10) — August 2018 - May 2022

SKILLS

Languages/Libraries: Python (Pandas, Numpy, NLTK, Statsmodels, Scikit-learn, PyTorch, TensorFlow), SQL (PostgreSQL), Go
Frameworks/Technologies: AWS (SageMaker, S3, Lambda, Glue), Apache Spark, Airflow, Tableau, Git
Competencies: Data Visualization, Statistical Modeling, Predictive Modeling, Machine Learning, Time Series Forecasting, NLP, CV, RAG, Deep Learning, Causal Inference

PROFESSIONAL EXPERIENCE

ConverSight — **Indianapolis, USA**
Product Research Intern — May 2025 – August 2025

- Developed an AI voice agent (FastAPI, OpenAI, LangChain) with dynamic tool invocation to enable concurrent supplier assurance calls, eliminating **20** hours/week of manual work and accelerating procurement. Extracted and stored insights in Postgres for analytics
- Built a RAG-based document Q&A system as a POC for a manufacturing client using Python, Qdrant, AWS S3, and OpenAI. Implemented hybrid retrieval (BM25 + vector similarity) for more accurate, reliable answers and to reduce answer refusal rates

ConverSight — **Coimbatore, India**
Data Scientist — August 2022 – July 2024

- Deployed a CLV estimation model using LightGBM for beauty products, scoring **8%** in MAPE and **0.93** in AUC for churn prediction, reducing churn by **9%** over **6** months and **13%** profit uplift over **12** months through targeted retention and personalized campaigns
- Architected an automated demand-forecasting system for **5K**+ SKUs using Prophet, ARIMA, and Holt-Winters, improving forecast accuracy by **20%** (**11%** MAPE) and preventing over **$200K** in annual stock-out and excess inventory costs
- Remodeled the turnover forecasting pipeline for product launches using 1D-CNN & MLP, achieving a **25%** MAPE reduction

Cognizant Technology Solutions — **Bengaluru, India**
Programmer Analyst — January 2022 – July 2022

- Led pipeline development to detect fraudulent UPI transactions from a database of millions using PySpark with CatBoost, achieving **96%** recall in fraud detection and **89%** recall in chargeback detection, reducing financial exposure for banks and merchants by **20%**

PROJECTS

Walmart Forecasting [Link]

- Engineered a forecasting model for **30K**+ Walmart SKUs by creating hundreds of predictive features (lags, rolling stats, price momentum) and ensembling LightGBM with an LSTM, achieving a top-**10%** ranked **0.48** WRMSSE score on Kaggle
- Architected a fully automated, serverless pipeline on AWS using Step Functions to orchestrate SageMaker Batch Transform jobs, reducing weekly forecast generation time from days to one hour and delivering actionable insights via QuickSight dashboards

LLaMA Squad [Link]

- Developed a QA model by fine-tuning LLaMA-2/3 in PyTorch with QLoRA, achieving ~**75%** Exact Match on SQuAD 2.0, a ~**300%** improvement over baseline and boosting correct abstention from ~**37%** to ~**82%**, significantly reducing model hallucination

Feedback Prize - Evaluating Student Writing [Link]

- Devised a multi-stage NLP model by ensembling Longformer/BigBird transformers with an XGBoost built on learned token embeddings to identify elements in student essays, boosting the final F1 score to **0.74** with a custom Weighted Box Fusion post-processing pipeline to merge ensemble predictions (Matched the SOTA performance of the competition's 2nd place solution)

Causal Uplift Modeling for Marketing Campaign Optimization [Link]

- Optimized marketing campaign ROI by developing a causal uplift model (Python, CausalML, XGBoost) to identify and target persuadable customers, demonstrating that targeting the top 30% of users could capture 80% of the total potential campaign lift

BUFF-RoSTOREing [Link]

- Engineered an automated shift assignment system leveraging Python, Airflow, and an event-driven AWS architecture (S3, Lambda, SQS, SES) to slash weekly scheduling time by **95%** (from 1 hour to 3 minutes) and ensure **100%** coverage of critical shifts