

Abhiram M V

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EXPERIENCE

ConverSight

Indianapolis, USA

Data Science Intern

May 2025 – September 2025

- Built product line cash flow forecasting model in **Python** using **Prophet**. Delivered insights into supply-chain levers driving trend breaks (shipping speed, selection changes, fees). Improved MAPE by **724 bps** over previous projections
- Designed an **AI workflow** using **LangChain** and **OpenAI** tool calling to convert unstructured procurement voice transcripts into schema-validated JSON stored in **PostgreSQL**, eliminating **8 hours/week** of data entry

ConverSight (AI-powered Analytics Platform)

Coimbatore, India

Data Scientist

August 2022 – July 2024

- Built an automated **demand forecasting** pipeline in **Python (Prophet, ARIMA, Holt-Winters)** and **SQL** for Asian food products (1M+ records). Optimized inventory and reduced stockouts, improving annual cash flow by **\$2M**
- Developed a **LightGBM** classifier to predict user reorders (**3M+** transactions) using behavioral features (streaks, purchase frequency) with **0.40 F1** score, optimizing cart recommendations, reducing time-to-order and increasing basket size
- Optimized **forecasting** model for fringe items' demand (84% of selection) using **MLP** Class Probability Estimation and **Quantile Regression** using **Scikit-learn**, improving P90 Quantile Loss by **1737 bps**
- Architected a **RAG** system with **Qdrant Vector DB**, **OpenAI API**, and **Sentence Transformer** embeddings. Applied recursive chunking, hybrid search, and reranked results with Cohere, increasing answer accuracy by **20%** over baseline
- Collaborating with engineering and DevOps to productionize **ML** solutions in **AWS SageMaker**, improving deployment cycles and meeting the SLA of **99.99%** availability

Cognizant Technology Solutions

Bengaluru, India

Data Analyst

January 2022 – July 2022

- Developed an **ETL** pipeline on Cloudera **Hadoop** and a **PySpark XGBRegressor** pipeline to predict **lead time** for stock items, improving the accuracy of the **Estimated Delivery Date (EDD)** by **30%** and **NPS** by **50bps**
- Constructed **Tableau** dashboards using **LOD expressions and parameters** to visualize **model drift** and delivery **KPIs** (On-Time Delivery (OTD), SLA breaches), cutting bottleneck detection time by **20%**

PROJECTS

Online Retail Data Clustering

Portfolio Link

- Built a **K-means clustering** algorithm using **RFM + XGBoost** to predict **90-day CLV**, achieving silhouette score of **0.42** and a projected **3X ROI** and **63%** cost reduction in marketing costs

H&M Personalized Fashion Recommendations

Portfolio Link

- Engineered a Two-Stage Recommender System (Candidate Generation & Ranking) system using **Collaborative Filtering + LightGBM** with Lambdarank objective, achieving **0.03** Mean Average Precision@12 (Top 2% of 3000 teams)

Amazon Reviews NLP Analysis

Portfolio Link

- Extracted insights from food reviews by building a system to uncover patterns in sentiment and cluster complaints into themes using **topic modeling** (LDA, BERTopic). Achieved **96% accuracy** in identifying negative customer feedback

MLOps for Network Security

Portfolio Link

- Designed an **MLOps** pipeline for malicious URL detection, using **Airflow** for orchestration and **MLflow** for experiment tracking on **AWS**, ensuring user safety. Served real-time predictions using **FastAPI** endpoint and **Streamlit** UI

SKILLS

Programming Languages/Tools: Python, SQL, Git, Jupyter, Pandas, NumPy, Spark, Tableau, Airflow, Docker

Data Science & ML: Scikit-learn, XGBoost, Time series forecasting, Clustering, TensorFlow, Keras, MLflow, LangChain

Cloud Computing: AWS (S3, SageMaker, Lambda), GCP (BigQuery)

EDUCATION

University of Colorado Boulder

Boulder, CO

Master of Science in Data Science (GPA: 3.73/4)

August 2024 – May 2026 (Expected)

Dayananda Sagar University

Bengaluru, India

Bachelor of Technology in Electronics and Communication

August 2018 – May 2022