

Summary

ML & AI enthusiast bringing 4+ years of industry experience in **E-commerce (Fashion Retail, CPG & FMCG)** and **Gaming (Casino & Gambling)**. Demonstrated strong ownership and problem-solving skills by delivering 6+ projects revolving around business problem like **Personalization, Recommendation Systems, Customer Segmentations & Propensity Models**. Keen listening, observing and storytelling skills complementing stake holder management.

Experience

Computer Vision Engineer | Walker Digital Table Systems, Gurgaon | December 2023 - Present

- Developed large scale **Face Recognition System** in unconstrained environment using Siamese network with emphasis on face detection, tracking, key-points detection & re-identification.
- Increased the FPS of legacy code from 5 to 20 by leveraging **micro-services, OOPS & multi-threading**
- Cut data preparation time by 95% by using **synthetic data**, eliminating the need of manual annotation

Consultant (Data Sciences: NLP) | Celebal Technologies, Noida | July 2023 - December 2023

- Delivered a **chatbot** solution leveraging LLM with chain of thought prompting on custom datasets
- Improved the latency of application by replacing existing SQL Server DB with vector database

Data Scientist (Big Data Analytics) | Landmark Group, Remote / Bangalore | August 2021 - June 2023

- Optimized the marketing funnel by targeting customers having higher **propensity** to buy. Able to capture 60% of the transacted base in the top 3 Deciles of the Decile chart with a lift >2.
- Boosted the Click Through Rate (CTR) of email campaigns by an average of 40% through **collaborative filtering-based recommendation system** using user interaction (click-stream data) as implicit feedback
- Increased revenue through targeted personalized campaigns having RoAS>20. Fine-tuned to MSE<20 resulting in an increase of ~40% in campaign response during A/B testing.

Tech-Stack

Languages	Python, SQL, C++, HTML, CSS
Data Bases	MYSQL, HDFS, Hive, Postgres, PGVector, FAISS, Redis, NoSQL, Cosmos, Chroma, Mongo
Tools	PowerBI, Postman, CVAT, Docker, Jupyter & Zeppelin Notebook, Pycharm, Copilot
Platforms	Linux, Spark, Kafka, Microsoft Azure Cloud (DataBricks, AzureML, CI-CD, MLOps, MLFlow), Runpod, Github, Bit-Bucket, Google Analytics, Jira, Confluence, Kaggle, Nvidia Tao
Frameworks	Numpy, Pandas, Geo-Pandas, Matplotlib, Scikit-Learn, Flask, FastAPI, Pyspark, Pytorch, OpenCV, Shapely, Ultralytics, HuggingFace, NLTK, Spacy, Langchain, Llama Index
Supervised Learning	Linear Regression, Logistic Regression, Naive Bayes Classifier, SVM, KNN, Decision Tree Random Forest, Gradient Boosting, XGBoost, Time series Forecasting (ARIMA),
Unsupervised Learning	Dimensionality Reduction (PCA), Market Basket Analysis (Association Rule Mining), Collaborative Filtering, Hierarchical Clustering, T-SNE, K-Means & DBSCAN
Deep Learning	Object Detection, Segmentation, Classification, Zero Shot learning, Transfer learning, Tokenization and Embedding generation, CNN, SSD, Resnet, YOLO, RNN, LSTM, GRU, GAN, Transformers, Auto-Encoder, VAE, N-Gram, Word2Vec, LLM, Llama, BERT, GPT
Optimization	Edge Inference (Quantization, Pruning), LoRA, PEFT, RAG, TensorRT, ONNX

Education

Degree	Year	Board	Score
Bachelor of Technology (IT)	2021	GGSIPU	75.5 %
Senior Secondary School Certificate	2017	CBSE	85.2 %
Secondary School Certificate	2015	CBSE	83.6 %

Certification

DP-100: Azure Data Scientist Associate
DP-900: Azure Data Fundamentals
AZ-900: Microsoft Azure Fundamentals