ARFATH AHMED SYED

arfiarfath0305@gmail.com | +91-9866852056 | LinkedIn | Github

Executive Summary

Full-stack Data Scientist with 3+ years of experience, specializing in Generative AI, machine learning, and scalable AI product delivery. Proven ability to lead multi-capability teams, design intelligent systems, and deliver impactful solutions with technical and business value.

Professional Experience

Publicis Sapient   *Jul '22 – Present*
Senior Associate Data Science L2

Project Lead – Insights IQ

- Owned the end-to-end design, development, and launch of Insights IQ, a GenAI-native enterprise analytics product.
- Led a 15-member multi-capability team spanning AI/ML, backend, frontend, DevOps, QA, and UX.
- **Designed architecture** with **agentic orchestration with Pydantic + langgraph**, dynamic pipeline generation, and distributed execution via Ray for long-running background tasks.
- Built **MLOps layer** with Docker, Kubernetes, gRPC microservices, caching, async ops, and orchestration via FastAPI.
- **Launched** the product on **AWS Marketplace**, including GTM coordination, documentation, and security compliance.
- Integrated tools like LangChain, FAISS, and semantic routing for LLM-powered intelligent retrieval and reasoning.

Lead Developer – AIBA GenAI Recommender

- Led the Data team on the **modernization** of a legacy ML-based product discovery system to a self-service **GenAI-powered recommendation engine**.
- Integrated vector and hybrid search systems with retrieval-augmented generation for recommendation delivery.
- Achieved **70% latency reduction** via caching and async pipelines; earlier stages cut latency by 20%.
- Engine built to support both exploration and zero-shot personalization use cases.

Other Notable Engagements:

- Created **in-house multimodal Hair Analyzer** using **YOLO, SAM, OpenCV, CLIP** for cosmetic scoring.
- Redesigned and deployed **EATS (recipe engine)** and **AIBA (recommendation system)** for consumer brands.
- **Launched Slingshot** – AI Copilot to assist DS teams internally using prompt-chaining and SDLC automation.

Saras Analytics   *Nov '20 - Feb '21*
Business Analyst Intern

- Developed and deployed **regression models** and **DNNs** for **churn prediction**, along with **ARIMA** and **SARIMAX** for quarterly **revenue forecasting**, enabling **proactive retention strategies** and data-driven decision-making.
- Extracted **actionable insights** from **large-scale ecommerce reviews** by applying **sentiment analysis** and **LDA topic modeling**, fueling **data-driven improvements** in product strategy and customer experience.

Awards & Recognitions

Aspire Award Finalist, *Publicis Sapient*	*Award, Mar '24*
Embracing The Future, *Publicis Sapient*	*Award, Oct '24*
Best Gen AI Case Study, *Publicis Sapient*	*Award, Jun '24*
Google Cloud Certified Professional Machine Learning Engineer, *Google*	*Certification, Apr '24*
IBM Data Science Professional Certificate, *IBM/Coursera*	*Certification, Apr '24*
Embracing The Future, *Unilever Global Townhall*	*Award, Nov '23*
Inclusive Collaborator, *Publicis Sapient*	*Award, Aug '23*
Best Debutant, *Publicis Sapient*	*Award, May '23*

Certifications

Google Cloud Certified Professional Machine Learning Engineer, *Google*   *Certification, Apr '24*
Databrick Generative AI Fundamentals, *Databricks*   *Certification, Apr '24*
IBM Data Science Professional Certificate, *IBM/Coursera*   *Certification, Apr '24*

Education

Indian Institute of Technology Bombay   *2018 – 2022*
B.Tech, Chemical Engineering

Skills

Generative AI:	LangChain, LangGraph, Semantic Kernel, Pydantic AI, Crew AI, Agentic Systems, Transformers, Prompt Engineering, RAG, Semantic Search
Core AI & ML:	Deep Learning, Machine Learning, Generative AI, Computer Vision, Recommendation Systems, TensorFlow, JAX, NLP (Spacy, NLTK), PyTorch, Scikit-Learn, SAM, CLIP, OpenCV, Ultralytics (YOLO)
Cloud & MLOps:	GCP, Azure, AWS, TFX, Docker, Kubernetes, ML Flow, Airflow, Git, CI/CD, Terraform, DVC
Programming:	Python, SQL, NoSQL, HTML, CSS, JavaScript, PySpark
Frameworks:	FastAPI, gRPC, REST APIs, Microservices, Ray, Celery
Other Tools/Skills:	Github/Git, , React, Next JS, Node JS, Express JS, Bootstrap, Tailwind CSS, Tableau, Power BI

Research Work

Statistical Thermodynamics   *Summer 2019*
Summer Of Science, Maths n Physics Club, IIT Bombay

- Comprehensive literature review of Statistical Thermodynamics and emphasized on key concepts which include Kinetic Theory of Gases, Applications of the Laws of Thermodynamics, Canonical Ensemble, Boltzmann Statistics, Micro & Macro Canonical Ensembles, etc.
- Documented a final report summarizing the 20+ results, theorems, and concepts in Quantum Statistics.

Languages

English (Proficient)	Hindi (Fluent)	Korean (Conversational)
Urdu (Native)	Telugu (Native)	German (Learning)

Extras

- Scored 327 out of 340 (158V, 169Q) in the GRE General Test - 2022.
- Creator of Blogorithm, Data Converse, and Data Games App (Crossword, Grid Games, Quizzes)
- Completed 20+ online courses and MOOCs focusing on Gen AI/AI/ML/DL, iOS App Dev, Finance & Leadership.
- Presented multiple enterprise GenAI solutions to global clients and internal showcases
- As a trekking enthusiast, completed a 12-Hour Trek to Kalsubai, the Highest Peak in Maharashtra.
- Trained in the long-axis backstroke and freestyle strokes of Swimming.
- Sports enthusiast (Squash, Pool & Carrom). Participated in the Crossy GC (5km marathon run) in Hostel GCs.