

Utkarsh Anant

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Data Scientist

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As an experienced data scientist and software developer with around 5 years of experience, I leverage my expertise in data analysis, natural language processing, and machine learning, including cutting-edge techniques like Large Language Models (LLMs), to drive innovation in software solutions. Collaborating with diverse teams of engineers, designers, and product managers, I ensure the development of robust code that enhances core competencies and leads to market success.

SKILLS

Languages and Tools	Python, Langchain, Git, Docker, Tensorflow, PyTorch, Scikit-Learn
RAG Pipeline	FAISS, Vector Databases, Search Algorithms, Ranking Algorithms
Gen AI (LLMs)	Open AI APIs, Mistral, LLaMA, BERT etc.
System Architecture	Mongo, Redis, SQL, MQTT, Celery, RabbitMQ, APIs, Docker
Cloud Platforms	Databricks, Azure, GCP
Deep Learning	Neural Networks, LSTM, CNN, Transformers
Machine Learning	Linear Regression, Polynomial Regression, Decision Tree, Random Forest, XGBoost, ARIMA, Prophet

TECHNICAL EXPERIENCE

Data Science Architect <i>PI Industries</i>	December 2025 — Present <i>Mumbai, Maharashtra</i>
<ul style="list-style-type: none">Architecting end-to-end strategic solutions that streamline cross-functional workflows and drive measurable growth through digital transformation.	
Site Lead - Data Scientist <i>Cipla</i>	September 2024 — December 2025 <i>Mumbai, Maharashtra</i>
<ul style="list-style-type: none">Developed Rapid AI Writer, a tool for the QMS team that reduced documentation creation time by 50%.Contributed to the generative AI based SmartAssign tool for engineering material code assignment, eliminating duplicate entries by 100% and improving new material code creation speed by 20%.	
Senior Data Scientist <i>Faclon Labs</i>	April 2023 — August 2024 <i>Mumbai, Maharashtra</i>
<ul style="list-style-type: none">Developed an industrial chatbot using RAG and Langchain to analyze sensor data and deliver insights on operations and asset performance in real time.Built an automated reporting tool that aggregates data from multiple sources and uses a knowledge base to generate context-aware reports via RAG and re-ranking.Trained machine learning models with FastAPI for energy analytics, forecasting energy usage for 2,000+ meters, saving Rs 10 crore for a manufacturing leader.Improved 45-minute interval energy usage predictions, reducing MAPE from 27% to 5% using Gradient Boosting, saving Rs 3.1 crore annually for a major energy sector client.Implemented an MQTT, FastAPI, Docker, and InfluxDB-based system to detect and classify steam trap issues, identifying Rs 6 crore savings.	
Machine Learning Developer <i>Cogneau Systems</i>	May 2022 — September 2022 <i>Gurugram, Haryana</i>
<ul style="list-style-type: none">Developed VERDIS' Demand Analytics module, reducing forecast planning time by 50%.Achieved 90% prediction accuracy for future demand by using ML techniques including ARIMA, Prophet, XG Boost, Random Forest, and LSTM.Employed Python NLP packages, such as NLTK and Gensim, to perform sentiment analysis and topic modeling on customer reviews to identify key trends and insights on product performance.	
Assistant Systems Engineer <i>Tata Consultancy Services</i>	November 2020 — April 2022 <i>Gurugram, Haryana</i>
<ul style="list-style-type: none">Used ML algorithms, including linear regression, polynomial regression, decision tree, random forest, XG boost, and neural networks, to estimate ship parameters for least resistance.Developed custom Python apps to automate ship stability calculations and predict trim/stability parameters, cutting calculation time to 1 day.Conducted feasibility studies on previous ship data using SQL/Python, identifying optimizations that could reduce resistance effects by 15%.	

EDUCATION

M.Tech Artificial Intelligence and Machine Learning , <i>Birla Institute of Technology & Science, Pilani</i>	April 2025
B.Tech Naval Architecture and Ocean Engineering , <i>Indian Maritime University, Visakhapatnam</i>	September 2020