

GOVINDRAJ KOTALWAR

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Pune, India

PROFESSIONAL SUMMARY

Results-driven Data Scientist & Analyst with a strong foundation in statistical analysis and machine learning. Proven experience in optimising data workflows and enhancing data quality at Vodafone Idea Foundation. Proficient in Python, SQL, and Predictive Modelling, with a focus on translating complex data into actionable business insights.

TECHNICAL SKILLS

Data Science & Analytics: Statistical Analysis, Hypothesis Testing, A/B Testing, EDA, Predictive Modelling, Pandas, NumPy.
Machine Learning: Scikit-learn, XGBoost, Linear/Logistic Regression, Random Forest, K-Means Clustering.
Deep Learning & AI: TensorFlow, PyTorch, CNNs, YOLOv8, OpenCV, RAG, Llama 3.1.
Data Engineering: SQL (Advanced), ETL Pipelines, BigQuery, Data Cleaning, Airflow.
Tools & Platforms: Docker, Git, AWS (EC2, S3), Tableau, Power BI, Excel.
Soft Skills: Leadership, Team Collaboration, Problem Solving, Critical Thinking, Adaptability.

PROFESSIONAL EXPERIENCE

Vodafone Idea Foundation

Oct 2024 – Nov 2024

AI Data Analyst Intern

Pune, India

- **Process Optimization:** Developed and deployed predictive classification models using **Scikit-learn** and **SQL**, improving data processing efficiency by **30%** and automating 15+ hours of weekly manual workflows.
- **Statistical Analysis:** Conducted comprehensive Exploratory Data Analysis (EDA) on 500K+ row datasets; utilised **Confidence Intervals** and **p-values** to validate hypotheses, directly influencing 3 strategic product roadmap decisions.
- **Pipeline Integrity:** Integrated data quality validation into ETL pipelines, boosting accuracy by **25%** and implementing **Data Drift** detection frameworks using Airflow.

MIT Aurangabad - ECESA

Feb 2024 – Present

Technical Co-Head

Aurangabad, India

- **Leadership & Management:** Directed technical upskilling programs for 200+ students in AI/ML and Cloud Computing, resulting in a **45% increase** in workshop attendance through strategic planning and team coordination.

PROJECTS

Cold Email Generator | Llama 3.1, Groq LPU, LangChain, ChromaDB

- Engineered a high-performance email generation tool using **Llama 3.1** on Groq, achieving **sub-700ms inference latency** for real-time generation.
- Implemented a **RAG pipeline** with ChromaDB to dynamically match user portfolios with job descriptions, significantly improving relevance.

Legal Agent RAG | Python, OpenAI Embeddings, FAISS, NLP

- Developed an AI system capable of querying complex legal documents via **FAISS-based semantic search**, ensuring high-accuracy retrieval of relevant legal precedents.
- Integrated prompt orchestration to enable accurate extraction and summarisation of legal clauses.

Deep Detective (Computer Vision) | TensorFlow, CNN, OpenCV, Transfer Learning

- Built a transfer-learning CNN model to detect deepfake images with **92% precision** and **88% recall**, reducing false positives by 27% compared to baseline models.
- Designed a frame-level preprocessing pipeline using **OpenCV** to ensure stable detection across varied lighting conditions.

EDUCATION

Maharashtra Institute of Technology

Nov 2022 – July 2026

B.Tech in Electronics & Computer Engineering | **CGPA: 7.08**

Aurangabad, India

Coursework: Operating Systems (OS), Computer Networks (CN), DSA, DBMS, Statistics, Artificial Intelligence.

CERTIFICATIONS

Oracle Certified Generative AI Professional (2025) — Oracle Certified AI Foundations Associate (2024)