

# Akash Anupkumar

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## SUMMARY

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AI specialist with 3.5 years of experience applying Gen AI, RAG, ML/DL, and advanced Analytics to deliver 20+ solutions that accelerated workflows by 40% and improved insights Precision by 35%. Expert in deploying modern AI tools to maximize efficiency and innovation.

## WORK EXPERIENCE

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### EURES & UPWORK

*Feb 2023 – Present — Europe*

**ML Engineer:** Delivered 20+ global projects in advanced data analysis, ML/DL, GenAI, and LLM-powered automation, achieving up to 45% efficiency gains for clients.

- Designed transformative visualizations and AI-driven systems that accelerated decision-making and significantly reduced manual effort.

### Siemens Technologies Pvt. Ltd.

*Nov 2022 – Nov 2023 — Bangalore*

**Data Scientist:** Developed ML/DL - Target Segmented models and chabots, boosting forecast accuracy by 18%. Leveraged SQL, Snowflake, and visualization tools for AI-driven business recommendations.

**Senior Data Analyst:** Optimized workflows with Alteryx, KNIME, VBA, SQL, and Snowflake, reducing manual effort by 30%. Built Power BI dashboards that boosted insights adoption by 25%.

### Inductus Internet Ventures Pvt. Ltd.

*Oct 2021 – Oct 2022 — Delhi*

**Associate Data Analyst:** Automated pipelines and dashboards using SQL, Excel, and Power BI, reducing manual effort by 25%.

- Delivered actionable insights and analytics solutions that improved project turnaround times by 35%.

## TECHNICAL SKILLS

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**Data Analysis and Visual Tools** SQL, Excel, PowerBI, Alteryx, Knime, VBA, Pandas, NumPy, Matplotlib, Seaborn, Plotly, Shap, ApacheSpark

**ML Tools & Frameworks** Scikit-learn, PyTorch, TF, Keras, CNN, RNN, Transformers, LLM's, RAG, Faiss, Agents, MLflow, OpenAI API, Ollama

**Python & App Tools** Optuna, Dash, Bokeh, Streamlit, Gradio, GitHub, GoogleColab

**Deployment Tools** HuggingFace Space, Render, Streamlit Cloud

## MACHINE LEARNING PROJECTS

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### HeartAttack Predictor

[LINK](#)

Streamlit Cloud-deployed web app providing real-time heart attack risk predictions from **70k+** patient records. Combines ensemble ML models, explainable AI, and interactive visualizations to accelerate clinical decision-making.

**Tech Used:** Shap, Ensemble/Stacking models, MLflow, Streamlit

### AQI Weather Karnataka Dashboard

[LINK](#)

Render-deployed Dash app providing real-time AQI & weather forecasts for Mysore and Bangalore. Combines historical trends, 0-24 hr LSTM predictions, and interactive visualizations, with MLflow tracking and Spark-powered ETL for large-scale datasets.

**Tech Used:** Plotly, Spark, LSTM, MLflow, LIVE APIs, Dash

### Indian Fraud Detection Dashboard

[LINK](#)

Render – deployed Interactive Bokeh dashboard for real-time fraud detection in Indian financial transactions. Uses SMOTE sampling for class imbalance, two models with high precision and recall, and one model optimized for high recall to capture potential frauds. Provides actionable insights to prevent fraudulent activities.

**Tech Used:** Scikit-learn, Isolation Forest, Ensemble Models, Bokeh

### Smart Counsel.AI

[LINK](#)

Streamlit Cloud–deployed application leveraging a RAG pipeline to deliver personalized career counseling. Assists users in making data-driven educational & professional decisions, with model versioning and performance monitoring via MLflow. Trained on 5L+ synthetic documents to ensure robust recommendations and diverse scenario coverage.

**Tech Used:** Hugging Face Transformers, Rag Pipeline, Faiss Indexing, OpenAI Mini, Streamlit

### AgentIQX - Multi-Agent System

[LINK](#)

Github hosted – Modern multi-agent application for audio, video, and PDF transcription summarization. Gradio-based system enabling dynamic analysis with RAG-powered, Faiss Pipelined, local LLM summarization, TTS, and autonomous agent interactions. Integrates embeddings, FAISS indexing, and multi-method extraction for robust understanding and knowledge retrieval.

**Tech Used:** RAG, FAISS, SentenceTransformers, Fast Whisper, TinyLlama, PyPDF2, gTTS, Gradio

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## ACADEMIC CERTIFICATIONS

### Certifications ([Link](#))

#### Python Programming Certification (Offline)

2020

- Completed offline certification in Python programming at **ABC Technologies, Bangalore.**
- Covered core Python, data structures, and basic scripting.

#### Coursera / deeplearning.ai

2021 – 2023

- AI for Everyone (Andrew NG)
- Machine Learning by Stanford (Andrew NG)
- Deep Learning Specialization (Andrew NG)
- New ML Specialization (Andrew NG)
- Large Language Models on AWS

#### LinkedIn Learning

2022 – 2023

- Completed 30+ mid-level courses to upskill, including Generative AI Essentials by Microsoft.
- Topics covered: ML, AI, NLP, Data Analytics, Cloud, and LLM fundamentals.

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## FORMAL EDUCATION

### Bachelor's Degree in Electronics & Communication Engineering (ECE) from VidyaVardhaka College of Engineering, Mysore 2021

- Solid foundation in mathematics, signal processing, and embedded systems.
- Developed rigorous analytical thinking and problem-solving skills, formed the backbone of my ML & AI career.

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## LANGUAGES & INTERESTS

**Languages Known:** English, Kannada

**Personal Interests:** Soccer, Table Tennis, Cooking, Travelling