

SUMMARY:

Aspiring AI/ML Engineer with expertise in building, training, and deploying ML models. Proficient in optimizing model performance, automating workflows, and managing end-to-end machine learning pipelines. Skilled in data preprocessing, feature engineering, and model evaluation. Experienced in cloud-based deployment, MLOps, and data-driven decision-making. Seeking opportunities to develop scalable AI solutions.

EDUCATION:

- IIT-M Pravartak Certified Data Science Course (July 2024 – Dec 2024)
GUVI
- B.E. Electrical and Electronics Engineering (Nov 2020 – July 2024)
Loyola-ICAM College of Engineering and Technology

SKILLS:

- Python, SQL
- Scikit-learn, Model Training, Hyperparameter Tuning, Cross-validation
- TensorFlow, PyTorch, Transformers, Hugging Face, LangChain, NLTK, SpaCy
- ARIMA, SARIMA, Prophet, LSTM
- Pandas, NumPy, Feature Engineering, ETL Pipelines, Text processing
- Power BI, Matplotlib, Seaborn, Power BI, Plotly, Streamlit, Gradio, Selenium
- AWS (S3, EC2, RDS), CI/CD, Model Deployment, Git
- Pinecone, FAISS, ChromaDB, Retrieval-Augmented Generation (RAG)

PROJECTS:

- AI-Powered Document Analysis System: [LINK](#) (March 2025)
Skills: LangChain, Vector Search, Ollama LLM, Streamlit
 - Developed a PDF-based analysis system using **vector embeddings & similarity search**.
 - Improved retrieval efficiency **by 30%** with **RecursiveCharacterTextSplitter**.
 - Integrated **Ollama LLM (DeepSeek-r1:1.5B)** for context-aware responses.
 - Optimized search efficiency **by 40%** using **InMemoryVectorStore**.
- Sentiment Analysis Model – AWS Deployment: [LINK](#) (January 2025)
Skills: Deep Learning, NLP, Hugging Face, AWS, Gradio, Model Deployment .
 - Fine-tuned **DistilBERT on 50K+ samples**, achieving **89.3% accuracy**.
 - Deployed a **Gradio web app on AWS**, handling **1K+ daily users**.
 - Reduced inference latency **by 40%**, storage costs **by 25%** with AWS (S3, EC2, RDS).
 - Secured **100K+ user logs** in **Amazon RDS** for analysis.
- Predictive Purchase System – Dominos: [LINK](#) (December 2024)
Skills: Time Series Forecasting, ARIMA, SARIMA, LSTM, Prophet, Python,
 - Achieved a **MAPE of 13.3%** with time-series forecasting models (ARIMA, LSTM, Prophet) for accurate weekly pizza sales predictions.
 - Automated **purchase order generation** based on forecasted sales, optimizing ingredient inventory and reducing waste by 25%.
 - Enabled precise supply-demand alignment, improving **inventory management and minimizing shortages**.

CERTIFICATIONS:

- SQL Certification – **HackerRank**
- Python Certification – **HackerRank**
- Machine learning Certification – **Naan Mudhalvan**