

Kavya

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SUMMARY

AI/ML Engineer with hands-on experience in LLMs, RAG, and NLP solutions, backed by 2.5 years in database engineering (PostgreSQL, ETL, automation). Skilled at building production-ready AI applications with Python, FastAPI, and vector databases. Experienced in deploying scalable cloud solutions on AWS.

INTERNSHIP

AI Engineer Intern <i>GrantU</i>	Feb 2025 – Present <i>Remote - Part-Time</i>
<ul style="list-style-type: none">– Built and deployed a RAG-based chatbot by fine-tuning TinyLLaMA, enabling domain-specific conversational intelligence.– Engineered automated data pipelines with Pandas for AWS PostgreSQL and designed a scalable workflow using Amazon Batch for seamless data processing.	
AI Engineer Intern <i>Recursive Meta</i>	July 2024 – Nov 2024 <i>Remote - Part-Time</i>
<ul style="list-style-type: none">– Developed NLP-powered Text-to-SQL models with Vanna AI and deployed APIs using FastAPI, Flask integrated with PostgreSQL.– Built a Streamlit Cricket Analytics dashboard with automated Twilio alerts, deploying the system on Render for monitoring.	

EXPERIENCE

Database Administrator <i>Prince Capital</i>	Oct 2022 – Mar 2025 <i>Chennai, India - Full-Time</i>
<ul style="list-style-type: none">– Designed scalable PostgreSQL schemas and ETL pipelines for stock market data, achieving 99% data accuracy.– Automated 70% of operational tasks using shell scripting and Linux, reducing manual workload by 30%.– Optimized SQL queries for business intelligence, improving data retrieval time by 20%.	
Quality Control Chemist <i>Shanmugha Bio Fuels</i>	Oct 2020 – Feb 2022 <i>Erode, India - Full-Time</i>
<ul style="list-style-type: none">– Conducted chemical analyses to ensure product quality and regulatory compliance.– Implemented corrective actions based on test results to maintain standards.	

TECHNICAL SKILLS

Languages: Python, SQL, Shell Scripting, Linux Commands
AI/ML Frameworks: TensorFlow, PyTorch, Scikit-learn, LangChain, Vanna AI, LangGraph, LangSmith
NLP & LLM: Hugging Face Transformers, spaCy, Llama, BERT, RAG, Prompt Engineering, Knowledge Graphs
Vector Databases: Chroma, Pinecone, FAISS
API Development: FastAPI, Flask, REST APIs
Databases: PostgreSQL, MySQL, SQL Server
Visualization: Streamlit, Power BI, Matplotlib
Libraries: Pandas, NumPy, SciPy
Other: AWS, Deep Learning, Semantic Search, Model Fine-Tuning, Feature Engineering, Docker, CNNs, RNNs, Transformers, Attention, Fine-Tuning, Hyperparameter Tuning.

PROJECTS

LumineSkin: RAG-Based AI Skincare Assistant <i>LangChain, Groq, Pinecone, Streamlit</i>	July 2025
<ul style="list-style-type: none">– Built a LLM pipeline with LangGraph Retrieval-Augmented Generation (RAG) chatbot that delivers brand-specific, intelligent skin-care advice using product data and FAQs.– Integrated Groq LLM with Pinecone vector DB and LangChain pipeline to enable natural, accurate, non-hallucinated responses.– Designed a Streamlit UI allowing users to compare ingredients, and ask skin-type-specific questions within brand ecosystem.	
Bhasavidvamsu: Speech Translator <i>Python, Streamlit, Sarvam AI, FastAPI</i>	June 2025
<ul style="list-style-type: none">– Built real-time speech translation app for 9 Indian languages using Sarvam AI's STT, TTS, and translation API and LLM with speech-to-text pipeline.– Developed Streamlit UI with FastAPI backend, achieving 95% transcription accuracy for Hindi, Tamil, and Telugu.– Integrated audio processing with Sounddevice and SciPy, optimizing for low-latency performance.	
Credit Risk Prediction <i>Python, Streamlit, Machine Learning</i>	May 2025
<ul style="list-style-type: none">– Built a Streamlit app for loan default prediction using logistic regression and decision trees, achieving 85% accuracy with feature engineering and model evaluation via ROC-AUC and F1-score.	

CERTIFICATIONS

- Databases and SQL for Data Science with Python (with Honours), IBM — Jun 2024
- SQL (Advanced) Certificate, HackerRank — May 2025
- Introduction to Data Analytics, IBM — Aug 2024

EDUCATION

Vellalar College for Women <i>B.Sc. Chemistry</i>	Jun 2017 – Sep 2020 <i>Erode, India</i>
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