SUPRIYA M

Bengaluru, India • +91 8618873280 supriyachola123@gmail.com • GitHub • LinkedIn
Hugging Face: https://huggingface.co/supriyachola

PROFILE SUMMARY

Recent graduate (B.E. AI & ML, CGPA: 9.05/10) with proven experience building and deploying production-grade ML systems, NLP pipelines, and Generative AI applications. Published researcher (IJARESM Vol. 13) and KSCST-selected project at IISc Bangalore. Skilled in Python, PyTorch, TensorFlow, scikit-learn, LangChain, RAG pipelines, and computer vision. Seeking an entry-level role in AI/ML Engineering, Data Science, or NLP/CV to build scalable, real-world AI solutions.

INTERNSHIP

AI/ML Intern | IIMSTC — VTU Structured Project Programme *Jan 2026 – May 2026*

- Built and deployed end-to-end AI/ML and Generative AI applications under industry mentorship, focusing on predictive analytics, NLP, and intelligent automation pipelines.
- Developed Nyvra — AI-powered women safety & route risk prediction system; processed 10,90,000+ GPS and crime data points (2016–2026) using FastAPI, Supabase, and Flutter.
- Evaluated multiple machine learning models including Random Forest, XGBoost, LightGBM and Isolation Forest before selecting the best-performing ensemble, achieving 76% accuracy.
- Engineered real-time safety heatmap visualization, feature pipelines, REST APIs, and deployed the final model on Hugging Face Spaces.

PROJECTS

Voxmate — Multimodal AI Assistant *Selected: 49th KSCST SPP, IISc Bangalore*

- Designed multimodal AI assistant integrating DeepFace (computer vision / facial recognition), LiveKit WebRTC, and Google Realtime AI; achieved 95% face recognition accuracy with speech-to-action latency.
- Automated email dispatch, browser control, IoT device management, and system utilities via NLP-driven natural language commands.

AI-Powered Profile Matching Platform *Published: IJARESM Vol. 13, Issue 7, Jul 2025*

- Implemented NLP-based semantic recommendation engine using Word2Vec embeddings + cosine similarity (scikit-learn) for interest-based profile matching.
- Served real-time video/audio/chat via Flask-SocketIO and OpenCV; research published in a peer-reviewed international journal.

RAG-Based Document Q&A Bot *Deployed on Streamlit Cloud*

- Designed end-to-end Retrieval-Augmented Generation (RAG) pipeline: LangChain + FAISS vector store + sentence-transformers embeddings + DeepInfra LLM API.
- Implemented full pipeline from document chunking → embedding → semantic retrieval → LLM-based answer generation.

Serpents-CarbonAware — CO_2 Footprint Tracker

- AI-enabled tracker using FastAPI + HuggingFace Transformers with personalized eco-recommendations, PDF export, and interactive data visualization dashboard.

TECHNICAL SKILLS

Languages	Python, SQL, JavaScript, Dart, Java (Basic)
AI / ML	PyTorch, TensorFlow, scikit-learn, XGBoost, LightGBM, Transformers, Gensim

NLP / CV	NLTK, spaCy, Word2Vec, sentence-transformers, OpenCV, DeepFace
Gen AI / RAG	LangChain, FAISS, RAG pipelines, HuggingFace, LLM API integration, Google Realtime AI
Backend	FastAPI, Flask, REST APIs, Flask-SocketIO
Databases	MySQL, MongoDB, Supabase (PostgreSQL)
Tools	GitHub, Hugging Face Spaces, Streamlit Cloud

EDUCATION

B.E. — Artificial Intelligence & Machine Learning *2022 – 2026*
AMC Engineering College, Bengaluru | CGPA: 9.05/10

12th Grade | Narayana Institute *2021 | 95%*

PUBLICATIONS & ACHIEVEMENTS

- Publication: "AI-Powered Connections for Matching Profiles" — IJARESM, Vol. 13, Issue 7, July 2025 (peer-reviewed international journal).
- Voxmate selected for the 49th KSCST Student Project Programme (SPP) by IISc Bangalore — competitive state-level research showcase.