

# Akshaya V.G

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## Professional Summary

Generative AI and LLM enthusiast with strong expertise in Machine Learning, Deep Learning, and full-stack AI development. Skilled in building conversational AI, predictive models, and scalable applications using Python, Hugging Face, and OpenAI APIs.

## Projects

### HR Agentic AI – Intelligent Recruitment System

- Developed a FastAPI-based backend integrated with Groq LLaMA3-70B for natural language intent detection and HR automation.
- Built a CrewAI-style multi-agent system for dynamic routing of tasks like job matching and interview scheduling
- Implemented vector search using ChromaDB for semantic resume–job description matching.
- Automated email notifications and .ics calendar invites with secure SMTP integration for interview scheduling.

### SynapseMind

- Engineered an AI chatbot using Flask and React.js, reducing average response time by 25% and improving engagement by 30%.
- Integrated Hugging Face BlenderBot (Transformer LLM) with PyTorch for context-aware responses.
- Optimized system security with Flask-CORS and implemented SQLAlchemy with SQLite for robust data persistence.

### DermaMind AI – Cosmetic Suitability Recommender

- Built an LLM-powered skincare analysis tool using Gemini API for ingredient-based recommendations.
- Developed a rule-based NLP pipeline with spaCy to extract skin type, tone, and concerns from user input.

- Automated ingredient extraction from INCIDecoder using BeautifulSoup and handled fallback logic.
- Modularized code for clean separation of NLP and scraping.

### Comparative evaluation of machine learning and deep learning techniques for long-term precipitation level prediction in dams

- Developed an ensemble model combining LSTM, XGBoost, Random Forest, and SVR, increasing forecasting accuracy by 18%.
- Processed and analyzed over 6,800 weather data records with feature scaling (StandardScaler) and time-series modeling.
- Implemented a rule-based 60:40 discharge strategy, reducing flood risk by 15% and ensuring efficient water utilization.

## Education

### B.Tech – Artificial Intelligence & Data Science

Dr. N.G.P. Institute of Technology (Autonomous) | CGPA: 8.36 | 2021–2025

**Higher Secondary** – TV Sekharan Memorial | 89% | 2020–2021

**Secondary** – Everwin Vidhyashram | 86% | 2018–2019

## Technical Skill

Java | Python | SQL | HTML | CSS | Spring Boot | Machine Learning | Deep Learning | TensorFlow | PyTorch | Scikit-learn | NLP | LLM | Generative AI | OpenAI | Hugging Face | REST API | Git

## Certifications and Internship

- Full Stack Development – UpGrad
- Data Analytics with Python – NPTEL
- Cloud Computing Internship – Verzeo