

# Karthikeyan

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## Professional Summary

AI/ML and Data Science student with hands-on experience building real-time intelligent agents, LLM-powered applications, and cybersecurity tools. Skilled in Python, TensorFlow, PyTorch, and Gemini API with a track record of hackathon wins and AI-driven innovation.

## Technical Skills

- Languages: Python, Java, C/C++, SQL
- AI/ML: Supervised & Unsupervised Learning, Deep Learning, Computer Vision, Generative AI, Prompt Engineering
- NLP: Transformers, Text Classification, BERT, LangChain, Summarization
- Frameworks/Libraries: TensorFlow, PyTorch, Scikit-learn, HuggingFace, OpenCV, Pandas, NumPy
- Visualization: Matplotlib, Seaborn, Tableau, Power BI, Streamlit, Plotly
- Tools: Git, Docker, Google Colab, Jupyter, REST APIs

## Projects

- HSN Code Validation Agent: LLM-based agent using Google ADK + Gemini API for Excel-based HSN validation.
- NextGen 3.0 Firewall: Real-time AI intrusion detection system built with Gemini, Streamlit, and Scapy.
- Deepfake Detection Using CNN: Created CNN model for media forensics using OpenCV and TensorFlow.
- Voice Assistance Chatbot: NLP chatbot with TTS; achieved 85% accuracy on real-time queries.
- NLP Text Summarizer: Built prompt-controlled summarizer. ■ Winner – Prompt-o-Mania, Meenakshi College.

## Education

B.Tech in Artificial Intelligence and Data Science

S.A. Engineering College, Chennai | Sep 2022 – Jun 2026 | CGPA: 8.0

## Achievements

- Winner – Prompt-o-Mania Hackathon, 2025 (Meenakshi College)
- Winner – Sparathon (Cybersecurity + AI), 2025

## Certifications

- IoT Internship – Centre for Entrepreneurship Development, Anna University (2024)
- Python Programming – IIT Guvi (2024)

## Internship Availability

Available for 6-week remote internship | Start date between May 15 – June 19, 2025