

# HIRUTHIK SUDHAKAR

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## Summary

Dual degree student specializing in Data Science and AI & Machine Learning with hands-on experience building end-to-end data and ML pipelines. Proficient in Python and AWS services, FastAPI, PyTorch, and MLOps including model training, optimization, deployment, serving, and versioning. Proven ability in autonomous work and rapid prototyping of production-grade, high-impact ML systems.

## Education

**Indian Institute of Technology, Madras**

May 2024 – Sept 2028

*Bachelor of Science in Data Science*

**Saveetha Engineering College**

June 2023 – Sept 2027

*Bachelor of Technology in Artificial Intelligence & Machine Learning*

## Technical Skills

- **Programming Languages:** Python, Java, C, SQL
- **Cloud & Data Engineering:** AWS (EC2, S3), PySpark, ETL Pipelines, Data Warehousing, Batch & Real-time Processing
- **Databases & Storage:** MySQL, PostgreSQL, SQLite, ChromaDB, FAISS, Vector Databases, Data Lakes, Lakehouses
- **AI/ML Frameworks:** PyTorch, LangChain, LangGraph, Retrieval-Augmented Generation (RAG), Agentic AI, OpenAI GPT-4, Multi-Agent Systems
- **Web & Application Development:** Django, Flask, Spring Boot, REST APIs, Microservices Architecture, Streamlit
- **DevOps & Tools:** Git, Linux, Docker, CI/CD, UiPath Automation
- **Data Processing:** Pandas, Document parsing (PDF, DOCX, XLSX), Unstructured data handling, Data transformation
- **Certifications:** AWS Cloud Practitioner Essentials, AWS Cloud Technical Essentials, PyTorch: Foundations & Core Concepts, Building and Training Neural Networks, UiPath Student Automation Developer Associate, Foundation Level Completion - IITM BS Degree, Pythonic Sprint (IITM), CompTIA A+ 220-1002, EF SET English Certificate (C1), Natural Language Processing - a DeepLearning.AI Specialization

## Projects

**SkilSync Fullstack Platform** | MERN Stack, Node.js, React, MongoDB

2025

- Architected a full-stack platform with secure authentication and role-based access control.
- Developed modular REST APIs for skill mapping and batch assignments.
- Integrated real-time dashboards and analytics to optimize user engagement.

**M&A Due Diligence Intelligence System - Agentic RAG Pipeline** | LangGraph, GPT-4, ChromaDB, Python

Oct 2025

- Built enterprise-grade agentic RAG system processing 10,000+ financial, legal, and operational documents, reducing analysis time from 6 months to 2 hours.
- Architected multi-agent orchestration using LangGraph with specialized Financial, Legal, and Operational agents.
- Engineered ETL pipeline with ChromaDB for semantic chunking, embedding, and vector retrieval.

**TrafficMen - Public Transport Scheduler** | Python, Django, REST APIs, Real-time Data Processing

2024

- Developed real-time public transport scheduling system based on city traffic indices and dynamic route optimization.
- Built data ingestion pipeline to process traffic data streams and generate optimized schedules.
- Implemented RESTful APIs for seamless integration with mobile and web applications.

## Experience

**Implant Training**

July 2023

*one9communications, Bangalore*

- Acquired hands-on experience in enterprise IT infrastructure, LAN/WAN setup, and cloud-integrated networking systems.
- Collaborated with network engineers to troubleshoot and optimize connectivity and performance.

## Achievements

- Smart India hackathon 2025 finalist
- Participant at Shaastra Techathon, IIT Madras
- First Place in paper presentation on "Influence of Mathematics in Engineering"