

# Satyam Singh

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## EDUCATION

**National Institute of Technology Nagaland**

*B.Tech in Computer Science*

**CGPA:** 9.85

**Chumukedima, Nagaland**

*Expected Graduation, May 2027*

## SUMMARY

Aspiring AI/ML Engineer with hands-on experience in LLMs, Computer Vision, and Deep Learning. Proven track record of building end-to-end AI solutions from conception to deployment, with expertise in modern frameworks and cloud technologies.

- **Technical Expertise:** Python, TensorFlow, LangChain, OpenCV with full-stack AI development experience
- **Project Leadership:** Led 6+ AI projects involving model training, API integration, and production deployment
- **Emerging Technologies:** Specializing in AI agents, RAG systems, NLP, and multimodal AI applications

## EXPERIENCE

### Software Development Intern – Sasefied

**Remote | April 2025 – Present**

**Skills:** Python, Resume Parsing, REST API, Automation, NLP, AI

- Developed robust resume parsing system analyzing and enhancing resumes through grammar refinement, keyword optimization, and job-description alignment.
- Built a criterion-based interview feedback system with Plotly visualizations and Redis storage for performance scoring and metrics analysis.
- Designed and deployed a backend API for auto-generating customized job descriptions based on title, location, salary, and skill parameters.

### Artificial Intelligence Intern - Edunet Foundation (AICTE Program)

**Remote | April 2025 – May 2025**

**Skills:** Python, AI/ML, Deep Learning, Azure, Microsoft Learn

- Selected for a 4-week AI internship by AICTE & Edunet Foundation, involving hands-on learning of supervised/unsupervised learning, generative AI using Azure, and deep learning.
- Participating in live masterclasses and guided mentorship to build a real-world AI project, with mandatory weekly engagement and progress tracking.

## PROJECTS

### WebMind – AI-Powered Web Agent

*February 2025 – March 2025 | Tools: LangChain, Python, Gemini 2 Flash, BeautifulSoup, LLMs*

- Built an autonomous web browsing agent using LangChain's framework and Gemini 2 Flash, enabling step-wise reasoning and real-time insights generation similar to WebGPT.
- Implemented HTML parsing and DOM traversal with BeautifulSoup for structured information extraction, enabling instruction-following and question-answering capabilities through web search.

### MedicalDAS 2.0 – AI-Powered Healthcare Assistant

*January 2025 - February 2025 | Tools: Python, Gradio, TensorFlow, OpenCV, ElevenLabs, GROQ API*

- Developed a multimodal AI medical assistant that analyzes patient images and processes voice queries in real-time, combining LLMs with computer vision for X-ray and report diagnostic analysis. Integrated Speech-to-Text (STT) and Text-to-Speech (TTS) via ElevenLabs API.
- Engineered the system with ElevenLabs API for speech processing, GROQ API for low-latency medical response generation, and Gradio UI for seamless voice and image interaction.

## MedicalDAS – RAG Application Chatbot

Feb 2025 – March 2025 / Tools: Streamlit, FAISS, LangChain, Mistral-7B, PDF Loader

- Built a Retrieval-Augmented Generation (RAG) chatbot that answers queries from medical PDFs, integrating the Mistral-7B API with LangChain for context-aware response generation.
- Implemented FAISS for vector similarity search with a comprehensive PDF preprocessing pipeline, deployed via Streamlit for smooth user interaction and real-time inference.

## Car Counter Using YOLO

Dec 2024 – Jan 2025 / Tools: Python, OpenCV, Ultralytics YOLO

- Built a real-time vehicle detection and counting system using YOLOv8 and OpenCV, processing live and recorded video streams across traffic intersections and parking lots. Processed live or recorded video streams using OpenCV.
- Optimized inference speed with tuned detection thresholds to achieve accurate object tracking under varied lighting and occlusion conditions.

## COMPETITIVE PROGRAMMING

**HackerRank** : 5-Star Python | 4-Star Problem Solving | 3-Star Java | 6-Star 30 Days of Code

**LeetCode** : Contest Rating 1432 (3/4 problems solved) | 50 Days Badge | 100 Days Badge

## ACADEMIC ACHIEVEMENTS

- **Assistant Coding Secretary** at NIT Nagaland, co-organizing Code Raze and Innovation competitions.
- **2nd Place Winner** in Technical Treasure Hunt, demonstrating advanced problem-solving skills.
- **3rd Place Winner** at Innovathon during Tech Avinya, Nagaland's 2nd largest techno-cultural fest.
- **Top CS Performer** maintaining 9.85 CGPA while conducting faculty-supervised deep learning research.
- **AI Project Portfolio**: Successfully deployed multiple production-ready AI solutions, including LLMs, RAG systems, YOLO object detection, and multimodal AI applications
- **Technical Contributor** to cutting-edge AI seminar on Generative AI and LLM applications, further enhancing technical expertise.

## SKILLS

**Programming Languages**: JavaScript, Python, C, Java, SQL, HTML/CSS

**Web Development**: MERN Stack (MongoDB, Express.js, React.js, Node.js), REST APIs, Bootstrap, Next.js (Learning)

**Frameworks & Libraries**: Flask, TensorFlow, Scikit-learn, NumPy, Pandas, OpenCV, Matplotlib, Seaborn, BeautifulSoup, Gensim, Langchain, Pytorch, NLTK, Scipy, Streamlit

**Machine Learning & AI**: Supervised & Unsupervised Learning, Deep Learning, Natural Language Processing (NLP), Object Detection, Retrieval-Augmented Generation (RAG), Large Language Models (LLMs), LangChain, Ollama, DSA

**Neural Networks**: ANN, CNN, RNN, LSTM, GRU, Bidirectional RNN, Transformers

**Tools & Platforms**: Git, GitHub, VS Code, PyCharm, Bootstrap, Kaggle, Hugging Face

**Database & Backend**: MongoDB, SQL, DBMS

**Dev Tools**: Postman, Docker

## Certificates/ Badges

- GitHub Foundation ([GitHub](#))
- Machine Learning with Python Level 1 ([IBM](#))
- Python and Problem Solving ([Hacker Rank](#))
- Introduction to Programming Using HTML/CSS ([Cognitive Class](#))
- AI with Python ([Infosys Springboard](#))
- 100 Days of Machine Learning ([Campus X](#))
- 100 Days of Deep Learning ([Campus X](#))
- AI Agent Foundation ([Hugging Face](#))
- Sigma Web Development ([Code with Harry](#))