

# 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 Intern with hands-on experience in LLMs, Computer Vision, and Deep Learning. Passionate about building scalable AI solutions and contributing to impactful real-world projects.

- Proficient in Python (Flask, Scikit-learn, TensorFlow, OpenCV, LangChain, Ollama) with experience in full-stack AI development.
- Led multiple end-to-end AI projects involving planning, model training, API integration, and deployment.
- Actively learning and implementing state-of-the-art techniques in AI agents, RAG, NLP, and multimodal systems.

## EXPERIENCE

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

**Remote | April 2025 – Present**

**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.

### Software Development Intern – Sasefied

**Remote | April 2025 – Present**

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

- Developing an AI-powered Resume & CV Builder that tailors resumes based on job descriptions and integrates LinkedIn sourcing APIs for talent mapping.
- Implementing real-time job-fit scoring with adaptive UI enhancements to improve user experience.
- Collaborating with development team to ensure scalability and efficiency, utilizing Python, Resume Parsing, REST API, Automation, and NLP.

## 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, Mitral-7B, PDF Loader*

- Built a Retrieval-Augmented Generation (RAG) chatbot that answers queries from medical PDFs, integrating Mitral-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.

### Credit Scoring Model Development

June 2023 – July 2023 | Tools: NumPy, Pandas, Scikit-learn, Flask

- Created a machine learning model to predict borrower creditworthiness using Gradient Boosting Classifier, achieving ~80% accuracy through comprehensive feature engineering, EDA, and model tuning. Performed feature engineering, EDA, model tuning, and evaluation.
- Implemented the solution with Scikit-learn Pipelines for reproducibility, and developed an interactive HTML/CSS front-end with Flask backend for real-time credit scoring.

## ACADEMIC ACHIEVEMENTS

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- Assistant Coding Secretary at NIT Nagaland; organized tech fests and secured second position in the "Treasure Hunt" coding competition, demonstrating leadership and problem-solving abilities.
- Collaborating on a faculty-supervised research project in deep learning and computer vision while maintaining academic excellence with a 9.85 CGPA, ranking among top CS department performers.
- Completed and deployed multiple real-world AI projects including LLM implementations, RAG-based systems, YOLO object detection, and multimodal AI solutions.
- Completed and deployed multiple real-world AI projects involving LLMs, RAG-based systems, object detection with YOLO, and multimodal AI solutions.
- Actively contributed to a one-day seminar on cutting-edge AI technologies, gaining valuable insights into advancements in Generative AI, LLMs, and real-world AI applications, further enhancing technical expertise.

## SKILLS

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**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

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- 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](#))