Satyam Singh

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EDUCATION

National Institute of Technology Nagaland   **Chumukedima, Nagaland**
B.Tech in Computer Science   *Expected Graduation, May 2027*
CGPA: 9.85

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 – 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.

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 the 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 the 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

- 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

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)