+18064512735 | sasiboyapati.12@gmail.com | https://www.linkedin.com/in/boyapatisasi/ | : Virginia, USA

AI DEVELOPER | MACHINE LEARNING

- Experienced AI/ML Developer with 3+ years of hands-on expertise in designing, developing, and deploying machine learning and deep learning models using Python, TensorFlow, PyTorch, and Scikit-learn. Proficient in NLP and LLM-based applications, leveraging tools such as Hugging Face, OpenCV, RAG, and LangChain. Skilled in building scalable data pipelines using SQL, Pandas, and Spark, and deploying models via Docker, AWS, and RESTful APIs. Proven ability to deliver production-ready AI solutions that enhance performance, automate workflows, and drive measurable business outcomes and expertise in GenAi
- Technical Skills: -

Programming Languages: Java, Python, SQL

Frameworks & Libraries: TensorFlow, PyTorch, Keras, OpenCV, Pandas, NumPy, Spring Boot, Flask, LangChain, HIPAA, RAG.

Web Development: HTML, CSS, React, Django, Node.js

DevOps Tools: Git, Docker, Kubernetes, Jenkins, JIRA, CI/CD, MedCoder

Al Tools: OpenAl API, Microsoft Azure, Amazon Bedrock, Hugging Face Transformers, Rasa, AWS (EC2, S3).

WORK EXPERIENCE

Aegis Technology Jan 2025 – Present

Al Developer

- Engineered and implemented Retrieval-Augmented Generation (RAG) pipelines using LLMs, ChromaDB, and LangChain, These
 mainly used for retrieving clinical, and safety-related information, and they've helped reduce retrieval latency by around 30%.
- Built scalable multi-agent AI workflows for NLP and computer vision using OpenAI APIs, custom retrievers.
- Developed full-stack applications using **Streamlit** and **FastAPI** for real-time model inference and seamless user interaction.
- Deployed scalable solutions on AWS (Lambda, EC2, S3) with Docker and Git-based CI/CD, boosting deployment speed by 40% and ensuring 99.9% uptime in production and aligning with MLOps best practices for reliability and scalability.

Texas Tech University Aug 2023 - Jan 2025

AI Developer

- Formulated and implemented advanced **LLM-based applications** using **LangChain**, including **multi-agent architectures** and **RAG pipelines**, improving contextual retrieval accuracy by **15%** and reducing response time by **30%** through task automation.
- Led end-to-end development of **NLP systems**, including data preprocessing, feature engineering, and augmentation for large-scale datasets (**1M+ records**); improved model performance by **18%** through hyperparameter tuning.
- Deployed scalable AI solutions using **PyTorch**, **TensorFlow**, **FastAPI**, and **AWS**, collaborating with cross-functional teams to integrate transformer models, resulting in **20% faster deployment cycles** and enhancing production system accuracy by **12%**.

Norm Software Solutions May 2022-May 2023

Data Analyst Intern

- Selected appropriate datasets and data representation methods. Analyzed EHR system data to uncover usage patterns, improving
 patient data access efficiency by 40%.
- Engineered data-driven solutions to optimize **RESTful API integration**, enabling real-time sync with external databases and ensuring **100% data accuracy**.
- Ensured secure handling of patient data and reporting workflows in compliance with HIPAA, improving audit-readiness.

PROJECTS

Sign Language Conversion Application:

- Developed a machine learning application using CNN and OpenCV, achieving 98% accuracy in translating hand signs to text.
- Built bi-directional system using TensorFlow and PyTorch for text-to-sign and sign-to-voice conversion, enhancing accessibility for 500+ users.

Mathematical Reasoning in LLMs:

 Built and Tested Transformer-based model on a dataset of 50K+ arithmetic problems improving mathematical reasoning accuracy by 7% using rule-based vs. retrieval-based evaluation frameworks..

EDUCATION

- Master of Science in Computer Science, Texas Tech University | GPA: 3.66/4.0 | 2023-2025
- Bachelor of Engineering in Computer Science and Engineering, Parul University, Gujarat | GPA: 3.25/4.0 | 2019-2023

CERTIFICATIONS

- AWS Certified AI Practitioner, AWS, 2025 & Amazon Bedrock Getting Started with Generative AI, Coursera, 2025
- Master Generative AI: Professional level LLM application development, Euron, 2025
- Al Extern , **AT&T**,2024