

SOHITH PAMU

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EDUCATION

Bachelor of Technology in Computer Science and Engineering

2021 – 2025

Rajiv Gandhi University of Knowledge and Technology-Nuzvid, Andhra Pradesh

CGPA: 9.7

Pre University Course - PUC

2019 – 2021

Rajiv Gandhi University of Knowledge and Technology-Nuzvid, Andhra Pradesh

CGPA: 9.71

Board of Secondary Education Andhra Pradesh

2018 – 2019

ZPP High School, Gadilanka, Andhra Pradesh

CGPA: 10.0

EXPERIENCE

Software Developer Intern

July 2024 – Present

Testsigma Software Technologies

Bengaluru, Karnataka

- As an intern at Testsigma Software Technologies, I contribute to product development using ReactJS, TypeScript, Java, and Spring Boot, focusing on creating robust and scalable software solutions.

DeepLearning Intern

May 2024 – June 2024

NIT Warangal

Warangal, Telangana

- Developed an automatic framework to predict lower limb activities using sEMG signals. Leveraged capsule network technology to assist individuals with disabilities, facilitating the development of mechanical lower limbs or exoskeletons controlled by the nervous system.

NLP Intern

March 2023 – August 2023

IIIT Hyderabad

Remote

- I involved in development of a machine translation model to enhance language conversion accuracy, explored NLP techniques like word embedding and named entity recognition, and led the creation of a Quora question pair similarity model, optimizing performance through data preprocessing and experimentation.

PROJECTS

AI Support Agent | *Flask, LangChain, pgvector DB, Redis DB, LLMs, ReactJS, Streamlit*

2024

- Developed an AI-powered support agent to assist customers by addressing queries and doubts, acting as the first level of support for companies to reduce the workload on human support engineers.
- Implemented efficient backend services using Flask and LangChain, with vectorized data stored in pgvector DB and Redis DB for optimized query handling.
- Designed an interactive frontend using ReactJS and Streamlit for seamless user engagement and real-time query resolution.

Smart Marks Scanner | *Computer Vision, Image Processing, Deep Learning, NLP, Python, Django, ReactJS*

2023

- Led the development of an automated system integrating webcam technology for scanning corrected booklets, using character recognition to detect student details and marks.
- Generated a well-structured Excel sheet with the extracted data, streamlining the submission process to the exam cell department in my college.

Lower Limb Activities Prediction | *Capsule Neural Network, sEMG Signal Processing, Deep Learning, Python*

2024

- Built a model using Capsule Neural Networks with transfer learning from ResNet50 to predict lower limb activities based on sEMG signals.
- Applied optimization techniques like early stopping to enhance model performance, aiding the development of neural-controlled mechanical limbs and exoskeletons.

SEC IPO Detector | *Python, Web Scraping, Data Analysis, GPT Models*

2024

- Developed a tool to track IPO filings in real time by analyzing the SEC's EDGAR RSS feed, focusing on S-1 forms.
- Enhanced detection accuracy using GPT models for classification, saving IPO-related filings into a structured CSV file for easy monitoring.

Project Submission Portal | *Python, Django, MongoDB, HTML, CSS, Bootstrap*

2021

- Developed the front-end for a project submission portal, simplifying the process of submitting student mini-projects to guides.
- Designed user-friendly interfaces for seamless navigation, enhancing project submission and evaluation management for students and guides.

TECHNICAL SKILLS AND INTERESTS

Languages: Python, Java, C, HTML/CSS, SQL, Javascript

Frameworks/Tools/Platform: Spring Boot, Bootstrap, Docker, Tailwind CSS, Git, Github, Linux, MS Office, LangChain

Libraries: Python Libraries, React

Relevant Coursework: Data Structures and Algorithms, Operating Systems, Object Oriented Programming, Database Management System, Software Engineering, Computer Networks.

Interests: Software Development, AI, Machine Learning, Deep Learning, NLP, Computer Vision, Image Processing, Web Scraping, Web Development, LLMs (Large Language Models)

Soft Skills: Problem Solving, Leadership, Event Management, Time Management, Quick Learning, Team Player

ACHIEVEMENTS AND CERTIFICATIONS

- Secured AIR 18th place in ‘codex’ conducted by IIIT Sri city, India.
- Qualified in GATE 2024 with a score of 429, demonstrating proficiency.
- Achieved mastery in solving 430+ LeetCode coding questions (DSA and SQL).