Rithish Sripaul

Full Stack Developer · Python Developer · Machine Learning Engineer · VIT

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EDUCATION

Vellore Institute of Technology — Amaravati, AP

B.Tech CSE, Specialization in Artificial Intelligence and Machine Learning — *2021 – 2025*
- Vice-President of Drushya Animation and Gaming Club
- CGPA: 8.6 / 10

EXPERIENCE

Full Stack Engineer with AI and Data Systems — September 2024 – Present

TRIAD AI, AI-Powered File Management System for NSTL, Vizag — *Hyderabad, Telangana*
- Built advanced document management system with categorization for uploaded files, enabling sorting by year, division, report, and more.
- Integrated semantic and full-text search capabilities for PDF and Excel documents, enhancing document discoverability.
- Implemented a multi-level approval workflow for uploaded documents, allowing admins to approve, deny (with feedback), or edit submissions.
- Leveraged AI and NLP tools to auto-generate summaries and abstracts for PDF content, and created visual analytics from tables and numerical data within documents. Using local LLM's such as Llama3.2 3B
- Optimized system to support over 100 real-time concurrent users with high efficiency and reliability.

Technologies Used: *Python, Flask, MongoDB, Bootstrap*

PROJECTS

AI Learning Management System - LMS | *Python with Flask, Bootstrap, MongoDB, Ollama* — Feb 2025
- Built an LMS platform with PDF upload functionality to auto-generate summaries, examples, cheatsheets, and MCQ quizzes, organized by topics and subtopics.
- Enabled teachers to manage students, assign topics, and create assessments based on uploaded content.
- Integrated an LLM model to analyze MCQ performance and identify student weaknesses.

Solon.labs - Uniting Doctors and Patients | *Python, Flask, Bootstrap, MySQL, Docker* — May 2024
- Constructed an integrated system connecting healthcare providers and patients, streamlining record-keeping. The system successfully managed health records for over 1,000 users and optimized data retrieval processes.
- Developed features for storing test results and prescriptions, simplifying patient health record management. Implemented functionality for doctors to use patient results with machine learning models for second opinions.

Storyblocks | *Python, Stable Diffusion, LLM* — Mar 2024
- Developed a Python application to transform textual prompts into AI-generated story videos with audio narration. This solution streamlines multimedia content creation, reducing monthly production time by 30 hours.
- Utilized the Gemini API for story generation, Stable Diffusion for video creation, and Elevenlabs API for audio narration to create a cohesive and engaging multimedia experience.

CERTIFICATES AND OTHER EXPERIENCES

Machine Learning and Deep Learning Specialization | *Stanford University, Coursera*
Responsive Web Design with HTML, CSS and JS | *Udemy*
Organizer of one of the biggest Hackathon in VIT-AP | *Dimo Hack, VIT-AP*
Finalist in GenAI Rush Hackathon | *Nexus*

TECHNICAL SKILLS

Programming: Python (Tensorflow, Numpy, Pandas, etc.), Flask, JavaScript, Bootstrap, MongoDB, SQL.
Miscellaneous: Shell (Bash/Zsh), Git, Github, Docker
Soft skills: Fast Typing Speed (80 - 100 WPM), Teamwork, Problem-solving, Solution planning
Languages: English (Professional proficiency), Tamil (Native proficiency)