

SUHAS VENKATA

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Education

PES University

Bachelor of Technology in Computer Science & Engineering - CGPA : 8.06

September 2022 - Present

Bengaluru, Karnataka

Experience

Centre of Cognitive Computing and Computational Intelligence

June 2025 - August 2025

Summer Research Intern

Bengaluru, Karnataka

- Built a career advisory platform that analyzed 30,000+ job postings & descriptions and 90,000+ courses, identifying skill gaps & recommending relevant skill-sets with a 0.98 accuracy.
- Optimized DSSM(Deep Structured Semantic Model) achieving a training loss of 0.08 & validation loss of 0.04.

Projects

Blockchain Powered Healthcare Insights | Python, IPFS, Multi-Chain Blockchain, Streamlit

March 2025

- Extracted insights from IPFS-stored EHRs using unique blockchain IDs to ensure data integrity & traceability.
- Applied OCR & Ollama to patient histories leading to faster clinical decisions, predicting adverse drug-drug reactions and recommending treatments.

Regulatory Mining Intelligence Bot | Python, Sentence Transformers, MongoDB, Tkinter GUI

April 2025

- Developed a legal chatbot leveraging NLP techniques to interpret mining laws, regulations, & compliance guidelines, enabling dynamic retrieval of relevant provisions in response to user queries..
- Used Sentence Transformers to detect legal contradictions & fetch mining law documents via semantic search.

Arduino-Based Intruder Detection and Alert System | Arduino, C++, SoftwareSerial, Ultrasonic Sensor

April 2024

- Built a C++ based security setup using ultrasonic sensors, triggering alerts via LED, buzzer, & GSM.
- Achieved near-instant detection <100 ms with real-time serial communication, ensuring quick & reliable security alerts.

Cloud File Transfer System using UDP | Python, UDP, Socket Programming, SSL, File Handling

March 2024

- Built a Python-based UDP client-server architecture supporting file upload/download/listing & remote command execution, handling files upto 100MB.
- Implemented dynamic IP handling and parallel command support, enabling 5+ concurrent clients.

AI-Powered Career Skill Gap Analysis | Python, Sentence Transformers, ChromaDB, DSSM, Streamlit

July 2025

- Integrated all-MiniLM-L6-v2 embeddings & DSSM to enhance semantic search & course recommendations for skill gaps.
- Recommended targeted courses to bridge skill gaps by aligning user competencies with job-specific requirements.

Technical Skills

Languages: Python,C, C++,Java, Rust

Frameworks/Libraries: TensorFlow, NumPy, Scikit-learn, Spring Boot,NLTK, SpaCy, PyTorch

Tools/Platforms: Git, Docker, Kubernetes, SQL, VSCode, Jupyter, Colab

Operating Systems: Windows, Ubuntu, Linux

Achievements

Heal-O-Code Hackathon

March 2025

- Top 10 out of 50+ teams in Heal-O-Code Hackathon (built a healthcare decision support tool using block-chain & ML).

MRD Scholarship

March 2023

- Awarded the prestigious MRD Scholarship in 1st Semester at PES University, receiving a 20% tuition fee reimbursement.

Distinction Scholarship

August 2025

- Received Distinction Scholarship of Rs.2000 for achieving SGPA above 7.75 in semester 2-6 at PES University.