SUHAS VENKATA

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EDUCATION

PES University (Electronic City)   **Bengaluru , Karnataka**

B.Tech in Computer Science   Sep 2022 - present
CGPA: 8.06/10.0 (Until Sem-6)

SKILLS

Languages: Python, C, C++, Java, Rust
Frameworks & Libraries: TensorFlow, NumPy, Scikit-learn, Spring Boot, NLTK, SpaCy
Tools & Platforms: Git, Docker, Kubernetes, SQL, VSCode, Jupyter, Colab
Operating Systems: Windows, Ubuntu, Linux

EXPERIENCE

C3I(Centre of Cognitive Computing and Computational Intelligence) | Research Intern   **June-August 2025**

- Built a career advisory platform leveraging NLP, vector search, and data analytics to identify gaps between user resume skills and target job requirements.
- Recommended personalized online courses (primarily from Coursera) to help users bridge skill gaps and upskill effectively based on job description analysis.

PROJECTS

1. **Block chain-Powered Healthcare Insights**   **March 2025**

- Extracted actionable insights from Electronic Health Records (EHR) stored in IPFS, with unique IDs secured on a multi-chain blockchain to ensure data integrity and traceability.
- Enabled faster clinical decision-making by analyzing patient histories, predicting adverse reactions, and recommending personalized treatments using machine learning.

2. **Chat-bot to respond to text queries pertaining to various Acts, Rules, and Regulations applicable to Mining industries**   **April 2025**

- Built a legal chatbot that analyzes mining laws, regulations, and compliance rules to process user queries and retrieve relevant legal provisions.
- Used Sentence Transformer models and cosine similarity to detect contradictions between laws and retrieve the most relevant legal documents based on user input.

3. **Alarm Burglar System using Arduino**   **April 2024**

- Designed a C++-based Arduino security system using an ultrasonic sensor to detect unauthorized entry and trigger red LED, buzzer, and GSM alerts via Softwareserial.h.
- Configured the Arduino IDE and established serial communication for seamless operation, enabling real-time intrusion detection and automated alert notifications.

4. **Cloud Storage Using UDP**   **March 2024**

- Implemented a Python-based client-server system for secure file upload/download using socket programming and SSL certificates.
- Configured dynamic IP handling for both localhost and multi-system setups, enabling seamless file transfers, file listing, and command execution across networks.

5. **AI-Powered Skill Gap Analysis & Reskilling for Employment Trends**   **July 2025**

- Utilized all-MiniLM-L6-v2 to generate and push refined job and course embeddings into ChromaDB for efficient semantic search, and employed a Deep Structured Semantic Model (DSSM) for training to learn enhanced semantic relationships.
- Developed a Streamlit web application as a user-friendly front-end interface, facilitating interactive skill gap analysis and providing intelligent course suggestions directly addressing identified skill gaps relevant to a specific job position, leveraging both pre-computed mappings and the trained DSSM.

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 and ML).

MRD Scholarship   **March 2023**

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

DAC Scholarship   **Februrary 2025**

Received Distinction Scholarship of ₹ 2000 for achieving SGPA above 7.75 in Semesters 2, 3, 4, 5 and 6 at PES University.

RELEVANT COURSE WORK

DSA, Computer Networks, Operating Systens Natural Language Processing, Machine Learning, DBMS, Deep Learning, Data Analytics