# SUHAS VENKATA

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## Education

**PES University**                                                                                           **Sep 2022 – Present**
*Bachelor of Technology in Computer Science (CGPA : 8.06)*                                              *Bengaluru, Karnataka*

## Relevant Coursework

- Data Structures
- Data Analytics
- Machine Learning
- NLP
- Deep Learning
- Computer Networks
- Operating System
- Database Management

## Experience

**Centre of Cognitive Computing and Computational Intelligence**                      **June 2025 – August 2025**
*Research Intern*                                                                                          *Bengaluru, Karnataka*

- 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

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

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

**Alarm Burglar System using Arduino** | *Arduino, C++, SoftwareSerial, Ultrasonic Sensor*                 **April 2024**

- Built a C++-based security setup using ultrasonic sensors, triggering alerts via LED, buzzer, and GSM.
- Enabled real-time detection through serial communication and Arduino IDE configuration for smooth deployment.

**Cloud Storage Using UDP** | *Python, UDP, Socket Programming, SSL, File Handling*                         **March 2024**

- Built a Python client-server model with SSL-based encrypted file upload/download/delete.
- Enabled dynamic IP handling for smooth multi-system operations and remote command execution.

**AI-Powered Career Skill Gap Analysis** | *Python, Sentence Transformers, ChromaDB, DSSM, Streamlit*        **July 2025**

- Integrated MiniLM embeddings and DSSM to enhance semantic search and course recommendations for skill gaps.
- Built a Streamlit app for smart job-skill mapping, using trained models and precomputed course-job links.

## 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 and ML).

**MRD Scholarship**                                                                                          **March 2023**

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

**DAC Scholarship**                                                                                       **February 2025**

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