

# Krishna K R

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My Portfolio: <https://portfolio-chi-swart-57.vercel.app/>



## EDUCATION

### PES University

*Bachelors of Technology in Computer Science*

- CGPA: 8.06 (As of 6<sup>th</sup> Semester)
- Coursework: Data Structures, Software Engineering, Cloud Computing, Applied Cryptography, Computer Networks, Web Technologies, Machine Learning, Information Security, Enterprise Business Systems & Large Language Models

## SKILLS

**Programming Languages:** Python, C,C++, Java, JavaScript, HTML, SQL, Assembly

**Frameworks:** React.js, Langgraph, FastAPI, Spring Boot, Tailwind CSS, Node.js

**Additional Skills:** PostgreSQL, MySQL, Linux, Langgraph

## PROFESSIONAL EXPERIENCE

### Data Science Intern, *Alten Calsoft Labs (ACL Digital)*

June 2025-Aug 2025

- Developed an AI-powered multi-agent conversational platform using Python, Azure OpenAI, LangGraph, and Streamlit for natural language queries over enterprise- and university-scale databases.
- Designed and customized ReAct agents for domain-specific use cases, enabling intelligent SQL query generation and secure role-based access control (RBAC)
- Implemented agent orchestration for query routing, SQL execution management, and conversation memory handling.
- Built dynamic data visualizations with Plotly and developed responsive Streamlit/Tailwind frontends with authentication and session management.
- Explored secure database connectivity techniques (including SQLite), demonstrating expertise in LLM integration, database security, and full-stack development.

### Trainee, *Zentree Labs*

June 2024 - Aug 2024

- Trained on Digital Image Processing from the ground up. Trained to apply coding implementation of these concepts to help develop company products as a whole.

### Tech Research Analyst, *CIE, PES University*

Jan 2023 - April 2023

- Developed a prototype of a fine-tuned Mistral 7b model that has been trained using a medical dataset using Google Colab.
- Ran Google Gemini 2b model locally using LM studio and gave it access to system terminal using Open Interpreter (open-source GitHub project).

### Entrepreneur Buddy, *Greenifly*

Nov 2022 - Dec 2022

- Researched technical aspects of drone making for the agriculture industry. Used social media to expand market reach and facilitate sales agent recruitment. Computed costs for products and services, established mark-up and set pricing for business offerings.

## PROJECTS

### Capstone Project - Smart Diet and Fitness Planner | *Python, Flutter, Groq API, Gemin API, HealthConnect*

Ongoing

- An all in one mobile application that tracks the user's diet using Image Recognition/User Input
- Capable of creating both diet and exercise plans personalized to the user's needs.
- Can connect to WearOS based watches to extract the user's health information and make custom health inferences out of raw data.

### HoneyShield | *Python*

[GitHub Link](#)

- Developed an IoT security anomaly detection system that uses a realistic honeypot to simulate devices; the system achieved an accuracy rate of around 90% in identifying malicious traffic.
- Real-time traffic analysis and IP blacklisting, enabling proactive detection and automated response to attacks in IoT/OT environments containing multiple devices.

### Mental Health Support Chatbot with RAG | *Python, LangChain, FAISS*

[GitHub Link](#)

- Weal is an AI-powered mental health support assistant that combines voice stress analysis with conversational AI to provide personalized mental health support.

### Personalized Exercise Recommendation System using NLP analysis and RAG | *Python, FAISS, gensim*

[GitHub Link](#)

- Provides personalized exercise recommendations using advanced Natural Language Processing (NLP) and prompt engineering techniques. The system analyzes exercise data, matches exercises to user profiles, and creates custom workout plans based on fitness goals, equipment availability, and experience level.

## HACKATHONS

- Proven ability to excel in collaborative, high-pressure environments through national hackathons (SAP Hackfest, SIH, TATA Imagination Challenge 2025) with a top-10 finish at PESU's Terrathon 4.0.