

# GAUTHAM SAAKETH KANDULA

COMPUTER SCIENCE GRADUATE

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## PROFILE

A final-year computer science student with a strong background in programming and problem-solving, skilled at applying academic knowledge to practical situations, a dedication to lifelong learning, and a love of cutting-edge technological innovation.

## EDUCATION

Bachelor of Technology in Computer Science Engineering,  
PES UNIVERSITY  
2020-2024

## PROJECTS

### A Secure and Privacy Oriented Implementation of Electronic Health Records

- Developed an innovative insurance-focused blockchain-based EHR management system. **Solidity** is used for smart contracts and **React** is used for the front end. Additionally, it manages wallets using the **MetaMask** extension.
- Currently using **Hyperledger Fabric** to create a private blockchain whose purpose is solely for medical applications.

### AI Restaurant Recommender System

- Created a restaurant recommendation model It uses **Extra Tree Regression with 95%accuracy** with the previous three restaurants as factors to predict the approximate cost the person is likely to spend.
- It uses **KNN** for popular regional cuisine.
- It also applies **TFIDF** to compare the similarity of restaurants based on reviews.
- The project was trained using real-world Bangalore Zomato data.

### Blood Collection Camp AWS Website Hosting

- Using AWS infrastructure, including **EC2**, **RDS**, and **Nginx server**, a dynamic website for storing and viewing blood test results was successfully launched.
- Improved the development and deployment process by putting in place a strong Continuous Integration and Continuous Deployment (**CICD**) pipeline using GitHub.

### Smart Watch Prototype

- Built a prototype smart watch using an **ESP8266** and numerous sensors, primarily a heart rate and blood pressure sensor.
- It uses the **Arduino Cloud** to obtain data in real time.
- Analytics was performed to forecast heart attacks and other issues.

### Club Development System

- Designed a club management website using **HTML**, **CSS**, **JavaScript**, **ReactJS**, **MongoDB**, and **ExpressJS** that handles club registrations, features club information, and has a calendar-based notifications system

## SKILLS

PYTHON  
C  
JAVA  
MYSQL  
HTML/CSS/JS  
PYTORCH, TENSORFLOW, KERAS  
AWS  
PROBLEM SOLVING  
COMMUNICATION

## COURSES

BLOCKCHAIN  
QUANTUM CRYPTOGRAPHY  
REINFORCEMENT LEARNING  
MACHINE LEARNING  
GRAPH THEORY  
IOT  
CLOUD COMPUTING  
SOFTWARE TESTING  
DBMS  
COMPILER DESIGN

## AWARDS

1X EXCELLENCE IN COMPUTERS  
3X MRD SCHOLARSHIP-TOP 15%  
3X DISTINCTION AWARD

## LEADERSHIP

### MAAYA SPONSORSHIP HEAD

Led a group of twenty individuals and obtained sponsorships for the college fest worth about one lakh.