

# Katukojula sai prerana

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 <https://katukojulasai.github.io/katukojula-saiprerna-portfolio/>

## Profile

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Motivated and detail-oriented final-year B.Tech student in Artificial Intelligence and Machine Learning with strong problem-solving, analytical, and technical skills.

## Education

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**Trinity college of engineering and technology** 2026  
**BTECH(AIML)**  
9 CGPA

**Krishnaveni Vikas junior college** 2022  
**INTER(MPC)**  
989/1000 marks

**Sri sidhartha high school** 2020  
**SSC**  
10/10

## Skills

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- PROGRAMMING SKILLS: Python , Java , C , Html5 , Css3
- SOFTSKILLS: communication , leadership, presentation, creativity
- PRESENTATION SKILLS:PowerPoint, Excel, MS word, PowerBI
- TOOLS: GitHub, Jupyter Notebook, Google Colab, VS Code,canva

## Professional Experience

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### IIT HYDERABAD (swayam)

#### Internship

Assisted in the development and management of online learning content for the SWAYAM platform. Conducted research, content review.

### CODEBOT-hackathon-IISC BANGALORE

#### Hackathon

Finalist – CodeBot Hackathon, ARTPARK Bangalore. Shortlisted for the national-level CodeBot Hackathon organized by ARTPARK, Bangalore. Developed a Fraud Detection Mobile Application using Artificial Intelligence to identify and prevent suspicious transactions in real-time.

### MENTOR TOGETHER

#### Internship, training

mentorship program focusing on communication skills, presentation techniques, and soft skills development.

## **AICTE-EDUNET**

### **Internship**

Worked on AI-driven solutions for sustainable agriculture, focusing on crop yield prediction and resource optimization. Gained hands-on experience in applying machine learning techniques.

## **DATA ANALYTICS with python**

### **Training**

Python for data analysis, including data cleaning, visualization, and statistical analysis. Learned to use libraries such as Pandas, NumPy, and Matplotlib for handling and interpreting datasets.

## **SMART INDIA HACKATHON**

### **Hackathon**

Developed an AI-powered solution for ensuring the availability of high-quality seeds to farmers, improving crop productivity and sustainability.

## **SMART LEARN EDUTECH**

### **Internship(AIML)**

Worked on developing and implementing AI/ML models for educational technology solutions. Applied machine learning algorithms for data-driven insights to enhance personalized learning experiences.

## **MIND SPARK INNOVATIONS**

### **internship(AI)**

Worked on AI-based solutions, focusing on model development, training, and optimization for real-world.

## **Projects**

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### **Detection of unauthorized constructions using drones**

Drone system of real-time aerial monitoring. Integrated sensors and camera modules.

ROLE: sensor integration, and programming of autonomous navigation using AI-based object detection.

### **Indoor AI navigation**

AI-powered indoor navigation system guide users within malls, hospitals, airports etc. AI-based pathfinding and real-time location tracking

ROLE: integrated AI techniques for obstacle detection and shortest path calculation. Assisted in testing, debugging.

### **Fraud Detection using AI app in mobiles**

mobile application capable of detecting and preventing fraudulent transactions in real time.

ROLE: Tested for accuracy and efficiency in fraud detection.

### **High quality seeds using AI machine**

AI-powered platform to assess seed quality and recommend high-yield varieties to farmers for better crop productivity.

ROLE: collected information about different seeds and organizing the data. designed simple pages to display seed details clearly.

### **AI chatbot**

AI-powered chatbot capable of handling customer queries, providing instant responses, and reducing manual workload.

ROLE: Designed and implemented chatbot conversation flow. Integrated NLP models for intent recognition.

## **Customer chunks**

Machine learning model to predict customer churn (likelihood of customers leaving a service). The system analyzes customer behavior, transaction history, and usage patterns.

ROLE: Collected and preprocessed customer data for model training.

## **BP control by ML for remote patient monitoring**

Mobile application collects BP values, stores history, generates a medical-formatted PDF instantly and sends it to the doctor.

ROLE : Collected BP data and organized it for generating reports. designing the website interface.

## **Certificates**

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### **oracle academy**

Database programming with SQL final exam passed certification

### **JP MORGAN**

Software Engineering job simulation

### **Accenture**

Developer virtual experience program

### **TASK**

Frontend development HTML5 CSS3

### **All India NCAT**

Qualified in All India Naukari campus aptitude test

### **Data analytics with python**

Completed training along with project

## **Awards**

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**Finalist of VISHWAKARMA awards by IIT HYDERABAD**

**Finalist of CODEBOT Hackathon IISC banglore**

**Author of the book : CORRECT THE INCORRECTNESS**

**Secured 81 % in JEE MAINS**

**Town topper in intermediate**

Secured 989 marks out of 1000 in intermediate MPC state town top marks

## **Languages**

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Telugu , Hindi , English