

BHAVAN RAMANA

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PROJECTS

Examining Successful attributes for students using Machine learning techniques

- Conducted data exploration using **advanced pre-processing techniques** on **705 student records** to identify key correlations affecting student motivation.
- Findings led to the development of targeted interventions, which **improved retention rates by 15%**.
- Utilized **Python, Pandas, and Scikit-learn** for data analysis and model building, employing classification techniques to predict student success factors and recommend interventions.

Cloud and IoT-based Health Monitoring System

- Engineered a health monitoring system for remote patient care, achieving a **25% increase in monitoring accuracy** through real-time data collection and analysis.
- Improved patient response times by 30% and reduced data latency by 20%, enhancing overall efficiency.
- Introduced an **automated SMS alert system** to notify healthcare providers immediately when critical changes in patient readings were detected, ensuring timely intervention.

StudyBud - Collaborative Study Platform

- Built user authentication and registration system using Django's built-in auth framework.
- Implemented full CRUD operations for **study rooms, topics, and messages** with clean and user-friendly interfaces.
- Utilized **Django ORM** for seamless database interaction and optimized query performance for scalability.
- Ensured responsive front-end using HTML, CSS, and JavaScript for cross-device compatibility. Applied best practices for secure data handling and user input validation

EDUCATION

Paavai Engineering College <i>Computer Science and Engineering</i>	Namakkal, India 2019 – 2023
Sree Vetri Vikas Matric HR.Sec School <i>HSC</i>	Dharmapuri, India 2019
St.Mary's Matriculation School <i>SSLC</i>	Dharmapuri, India n 2017

CERTIFICATIONS

Full Stack Web Development Certification in python

Greens Technology 2024-2025

Python with Artificial Intelligence Certification

ISOFT institute 2023

TECHNICAL SKILLS

Languages: Python, MySQL, HTML/CSS, JavaScript, ReactJS (basic knowledge)

Frameworks: Django

Data Tools: Pandas, NumPy, Google Cloud Platform (GCP)

Developer Tools: Git, GitHub, VS Code, PyCharm

RELEVANT COURSEWORK

Data Structures and Algorithms (DSA)
Database Management Systems (DBMS)

Object-Oriented Programming (OOP)
Operating Systems (OS)