

# GUNA VARDHAN KUMAR

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## EDUCATION

<b>BTech</b> <b>VIT Bhopal University</b>	Bhopal, Madhya Pradesh Expected May 2026 Major in Computer Science and Engineering <b>Cumulative GPA: 8.52 /10.00</b>	Sept 2022 - 2026
12 <sup>th</sup> Standard Aims junior College	Tirupathi, Andhra Pradesh Maths, Physics, Chemistry SSC Cumulative Percentage: 91%	June 2020 – May 2022

## KEY PROJECTS

- RescueCall Safety Application - Machine learning project** Dec 2024 - March 2025
- Developed an AI-powered mobile application that detects human screams in real time and triggers emergency alerts with GPS location to enhance public safety and crime prevention. Designed and deployed a real-time AI model capable of recognizing human distress screams with high accuracy, reducing response times in emergency scenarios.
  - Implemented advanced machine learning algorithms, robust API integration, and scalable database architecture to support seamless operation under high user loads.
  - Technology Stack : Machine learning, Android studios, API's, Database
- AI-Driven Flight Operations Optimizer - Intelligent Scheduling and Delay Impact Modeling for Airport.** May – July 2025
- Analyzed flight schedules and radar data to optimize takeoff and landing times, helping reduce congestion at busy airports such as Mumbai and Delhi.
  - Built an AI-powered interface using NLP to provide real-time query responses and scenario-based schedule impact analysis.
  - Developed predictive models to identify flights with high cascading delay risk, enabling targeted interventions for improved operational efficiency.
  - Technology Stack : Python, Machine Learning (scikit-learn, pandas), Natural Language Processing, Data Visualization, Open-source AI frameworks, Web scraping, Database management (MongoDB, MySQL).
- Administrative Chatbot - Natural Language processing and LLM project** April 2024 – May 2024
- Developed an administrative chatbot for the college to streamline communication by efficiently collecting and addressing student queries, enhancing user experience. Integrated real-time database connectivity and dynamic information retrieval, enabling instant, accurate answers and seamless record management.
  - Implemented advanced machine learning models for query classification and automated responses; designed robust dashboards for analytics and monitoring chatbot performance.
  - Technology Stack: CSS, JavaScript, Python, Machine Learning, Deep Learning, MongoDB, MySQL

## SKILLS

Programming Languages and Tools : Python, cpp , Python frameworks, Python API's , Python Libraries ,MySQL  
Technology stack : Machine learning, Data science, Data visualization, Data Structures , Algorithm building  
Core Subjects: operating systems, computer networks , DBMS , System Design , computer architecture  
Soft skills: Fluency in Language , proactive leader , problem solving .

## EXTRACURRICULAR ACTIVITIES

- Active Committee Member of Sports Club, organizing events and fostering teamwork since October 2022
- Regular participant in hackathons and coding contests, demonstrating problem-solving skills and competitive spirit.
- Languages Known – English , Hindi, Telugu
- Published a Research Article on Drones usage in Mining Industry for improve the productivity, secure work environment.

## CERTIFICATION

- Oracle Data science professional certification - Comprehensive data analysis ,modelling , Data visualization
- IBM AI Engineering certification - Understand and Implementing AI ,Machine learning, Deep Learning techniques
- Machine learning Training - Gaining practical skills in Deploying ML and DL projects.