

# GUNA VARDHAN KUMAR

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## PROFESSIONAL SUMMARY

Aspiring DevOps Engineer with a strong foundation in computer science, machine learning, and system design. Experienced in building scalable applications, automating processes with Python, integrating APIs, and managing databases like MongoDB and MySQL. Eager to leverage skills in automation, deployment, and infrastructure management to contribute to CI/CD pipelines, cloud operations, and efficient software delivery in a DevOps role. Proven problem-solving abilities through hackathons and real-world projects.

## EDUCATION

<b>BTech</b> <b>VIT Bhopal University</b>	Bhopal, Madhya Pradesh Expected May 2026 Major in Computer Science and Engineering <b>Cumulative GPA: 8.54 /10.00</b>	Sept 2022 - 2026
12 <sup>th</sup> Standard Aims junior College	Tirupathi, Andhra Pradesh Maths, Physics, Chemistry <b>SSC Cumulative Percentage: 91%</b>	June 2020 – May 2022

## KEY PROJECTS

- RescueCall Safety Application - Machine learning project** Dec 2024 - March 2025
- Designed and deployed a scalable mobile application using Android Studio that integrates real-time machine learning models for distress detection, automating emergency alerts with GPS integration to reduce response times.
  - Implemented robust API integrations and database architecture (MySQL/MongoDB) to handle high-load operations, ensuring seamless deployment and scalability for public safety scenarios.
  - Automated model training and inference pipelines with Python, focusing on efficient resource management and system reliability.
  - Technology Stack: Python, Machine Learning, Android Studio, APIs, Database Management.
- AI-Driven Flight Operations Optimizer - Intelligent Scheduling and Delay Impact Modeling for Airport.** May – July 2025
- Built automated data processing pipelines using Python and web scraping to analyze flight schedules and radar data, optimizing takeoff/landing times and reducing congestion at high-traffic airports like Mumbai and Delhi.
  - Developed predictive models and NLP-based interfaces for real-time querying and impact analysis, deploying them with scalable database solutions to enable targeted interventions and improve operational efficiency.
  - Focused on automation of data ingestion, model deployment, and monitoring to minimize cascading delays, applying system design principles for resilient infrastructure.
  - Technology Stack: Python, Machine Learning (scikit-learn, pandas), Natural Language Processing, Data Visualization, Web Scraping, Database Management (MongoDB, MySQL).
- Administrative Chatbot - Natural Language processing and LLM project** April 2024 – May 2024
- Engineered an administrative chatbot with real-time database connectivity (MongoDB/MySQL) to automate student query collection, response generation, and record management, enhancing communication efficiency.
  - Implemented machine learning models for query classification and automated deployments, including dashboards for performance monitoring and analytics.
  - Ensured scalable architecture through API integrations and front-end/back-end automation, streamlining operations in a high-user environment.
  - Technology Stack: Python, JavaScript, CSS, 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 .

## 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(Finlatics) - Gaining practical skills in Deploying ML and DL projects.

## EXTRACURRICULAR ACTIVITIES

- Active Committee Member of Sports Club, organizing events and fostering teamwork since October 2022.
- Regular participant in hackathons and coding contests, honing automation and problem-solving skills in fast-paced environments.
- Published a Research Article on Drones usage in Mining Industry to improve productivity and secure work environments.