

# KUSUMA KORLAM

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## OBJECTIVE

Aspiring software and machine learning and data science engineer with a strong foundation in programming, systems administration, and cloud security. Gained robust skills in machine learning, programming, web development, and data science. Passionate about designing solutions that tackle real-world challenges. Seeking to leverage expertise in innovative, fast-paced environments while continually broadening technical horizons.

## EDUCATION

- Malla Reddy College of Engineering and Technology (MRCET)** Nov. 2021 - Apr. 2025  
B. Tech in Information Technology | CGPA: 8.59  
Hyderabad
- Sri Chaitanya Junior College** June 2021  
Intermediate | Grade: 92.6%  
Hyderabad
- Tejaswi High School** Apr. 2019  
Secondary School Education | CGPA: 9.8  
Hanmakonda

## SKILLS

- Programming Languages:** C, Python, Java, MySQL
- Platforms:** Linux, Windows, Web
- DevOps:** Git, CI/CD Basics, Version Control, Automation Tools
- Middleware and Messaging:** Office 365, MS Exchange, Microsoft Teams
- Virtualization and Cloud Technologies:** AWS and basics of Azure
- Specializations:** Object-Oriented Programming, Cloud Infrastructure, Database Systems, Data Structures
- Soft Skills:** Critical Thinking, Team Collaboration, Problem-Solving, Leadership, Decision-Making

## PROJECTS

- PREDICTION OF EMPLOYEE LAYOFFS USING MACHINE LEARNING:** Sep. 2023  
Tools: Python, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn
  - Built 3 supervised ML models (Logistic Regression, SVM, Random Forest) with 80.2% validation accuracy, trained on 5,000+ employee records to predict layoffs.
  - Designed interactive dashboards to visualize key insights using Matplotlib and Seaborn.
  - Optimized model performance through feature selection and data normalization.
  - Created dashboards with Seaborn to identify high-risk employee groups by department and tenure.
- AI RESUME ANALYSER:** Mar. 2024  
Tools: Python, NLP, Streamlit
  - Built an AI-powered resume analyzer leveraging NLP techniques to evaluate and rank resumes effectively.
  - Implemented machine learning models to extract key skills, experience, and keywords from resumes.
  - Parsed 500+ sample resumes using NLP to extract skill keywords, improving screening speed by 90%.
  - Implemented an interactive Streamlit interface to dynamically display scoring results.
- MISSING PERSON DETECTION SYSTEM:** Nov. 2024  
Tools: Python, Scikit-learn, Pandas, Wireshark (for traffic capture), Matplotlib
  - Developed a web-based system to identify missing children using facial recognition.
  - Implemented automatic face matching between uploaded images and stored child records.
  - Designed a user workflow for uploading photos, searching records, and viewing match results.
  - Enabled real-time notifications to registered users when a missing child case is reported.
- BOOK RECOMMENDATION SYSTEM:** Feb. 2025  
Tools: Python
  - Developed a personalized book recommendation system using collaborative filtering and machine learning algorithms.
  - Integrated APIs and databases to enhance data collection and streamline user interactions.
- Achieved 86% improvement in recommendation accuracy, optimizing user satisfaction.

## CERTIFICATIONS

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- Cambridge University: Council of Europe Level B2 Cambridge English Level1 Certificate
- Udemy: Linux Redhat Certified System Administrator (RHCSA - EX200)
- Udemy: ChatGPT and Generative AI for Content Creation
- Coursera: Programming for everybody, Python Data Structures, Getting started with Flutter
- HackerRank: Python (Basic), SQL (Basic)
- YBI: Machine Learning, Data Science, Artificial Intelligence

## ACHIEVEMENTS AND COMMUNITY IMPACT

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- **District Topper** *Nov. 2019*  
*SRF Mathematics Olympiad* | Srinivasa Ramanujan Foundation
  - Achieved top rank in district-level Olympiad, showcasing analytical and problem-solving abilities.
- **Secretary** *july 2023*  
*Coding Club* | MRCET
  - Established the college's first coding club, fostering collaborative learning among 30+ members, representing 14% of the department.
  - Led workshops and hands-on coding sessions to promote peer learning.
- **Event Coordinator** *Jan. 2024*  
*Techtrix 2k24* | MRCET
  - Spearheaded the organization of technical events at the college tech fest.
  - Developed project management and team coordination skills.
  - Managed a 6-member team to execute 5+ tech competitions with 300+ participants.

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**DECLARATION:** I hereby declare that the above information is true to the best of my knowledge.

- KORLAM KUSUMA