

# PUSA PELLY AKHILA

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## Education

- **Bachelors of Technology (CSE-Data Science) – 9.09 CPGA**  
Malla Reddy Engineering College for Women (UGC Autonomous) (2020 - 2024 expected)
- **Intermediate (MPC) – 93.6%**  
Narayana Junior College (2018 - 2020)
- **10<sup>th</sup> class – 9.3 GPA**  
St. Mary's Bethany Convent Vidyalaya (2017 - 2018)

## Technical Skills

- **Programming Languages:** Python, Java, C
- **Programming Concepts:** Data structures and Algorithms (DSA) using Java, Database management systems (DBMS) using SQL, Object Oriented Programming (OOPs) through Java
- **Web Technologies:** HTML, CSS, Basics of Javascript
- **Tools:** VS code, Anaconda, MS Office

## Projects

- **Autonomous Traffic Signals using AI and Computer Vision ([Link](#)):**
  1. Designed and implemented an AI-based Autonomous Traffic signal control system using Python and Computer vision algorithm, resulting in a **23%improvement** in traffic flow efficiency. Employed machine learning to optimize traffic management, reducing travel times and enhancing overall road safety.
- **Crop Predictor and Demand Visualizer ([Link](#)):**
  1. Developed a Logistic Regression-based Crop Predictor with **79% accuracy**, enabling precise crop prediction considering budget, soil condition, and season.
  2. Implemented Data visualization to identify least grown crops in high demand, empowering farmers to make informed decisions and optimize crop planning strategies.
- **Emotion Based Music Recommendation ([Link](#)):**
  1. Created a Convolutional Neural network model for precise emotion detection from images, enabling personalized song recommendations.

## Achievements

- **Winners of Code Hackathon** held in the National Level Technical Fest 2K23 at Malla Reddy University.
- **Winner of Empiric of Data** held in National Technical Symposium MEDHA 2K23 at our college (MRECW).
- Selected as one of **Top 10** participants in **Hackathon** conducted at our college (MRECW).
- Selected as one of **Top 6** participants for **Idea Presentation** at our college (MRECW).

## Certifications

- Certified by **Cisco Networking Academy** on completing “**Programming Essentials in Python**”.
- Certified by **Coursera** on completing “**IBM Data Science**”.
- Certified by **Coursera** on completing “**Core Java**”.
- Published a journal in the **Journal of the Asiatic Society of Mumbai** (ISSN: 0972-0766) on "Emotion-Based Music Genre Recommendation Using Machine Learning Algorithms."

## Competitive Programming

- **Leetcode (solved 300+ problems):** [akhila\\_pp](#)
- **Codechef (solved 200+ problems):** [akhila\\_p23](#)
- **Hackerrank:** [akhilapusapelly](#)

## Position of Responsibility

- Cultural Coordinator at college, organized 50+ successful events.