

# Rongala Kuladeep Manikumar

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## SKILLS

- **Languages:** Python, C++, java
- **Frameworks:** Sklearn, NumPy, Pandas, Matplotlib
- **Tools/Platforms:** MySQL, Power Bi, Git
- **Soft Skills:** Leadership, Team Coordination, Consistency & Reliability

## PROJECTS

### Instrument Tuner AI Chatbot |[Github](#)

April 2024 – May 2024

- Created an AI-based instrument tuner chatbot that helps musicians tune guitar, bass, violin, cello, and ukulele using real-time pitch detection.
- Built the system to capture audio from the microphone, analyze pitch instantly, and show tuning accuracy through a visual needle display with custom tuning options.
- Integrated AI-based tuning guidance so users get clear suggestions when the pitch is off or the tuning is unclear, improving accuracy and ease of use.
- Helped musicians tune their instruments faster without external devices by providing instant, precise, and interactive tuning assistance through a web interface.

### Electric Vehicle Data Visualization |[Github](#)

Mar 2024 – April 2024

- Analyzed the Electric Vehicle Population dataset using Python and Pandas to identify trends and patterns in EV adoption.
- Cleaned and processed real-world EV data, handled missing values, and prepared it for accurate visual insights.
- Created visualizations in Matplotlib showing EV growth over years, state-wise distribution, and model-wise comparisons.
- Extracted key insights on factors affecting EV usage and presented them through clear charts.

## TRAINING

### Completed Summer Training in Advanced Data Structure Course by |LPU| [Certificate](#)

June 2025 – July 2025

- Covered core and Advanced Data Structures training program focused on core and advanced topics like trees, graphs, hashing, recursion, and algorithmic problem-solving.
- Learned efficient data handling, complexity analysis, implementation of ADT structures, and performance-focused coding techniques.
- Built multiple practice implementations of data structures including linked lists, stacks, queues, trees, heaps, and graph algorithms.
- Strengthened understanding of how different data structures impact speed, memory, and overall efficiency in real-world programming scenarios.

## CERTIFICATES

- Data Science Professional |Oracle| [Certificate](#).
- Social Network with Elite Performance |NPTEL| [Certificate](#).

April 2025

june 2024

## ACHIEVEMENTS

- **Organized 15+ hackathons and tech events:**  
Contributed to major university activities as Outreach Director.
- **Secured 2nd place in the Zerodha Varsity Quiz:**  
Demonstrating strong analytical and finance problem-solving skills.
- **Won the Savadhan 2.0 Public Speaking Workshop:**  
Showcasing strong communication and presentation skills.

## EDUCATION

- **Lovely Professional University**  
Bachelor of Technology - Computer Science and Engineering; **CGPA: 6.34** Punjab, India  
Since August 2023
- **Sri krishna Junior College**  
Intermediate; **Percentage: 79%** Andhra Pradesh, India  
April 2021 - March 2022
- **St.Anns High School**  
Matriculation; **Percentage: 85%** Andhra Pradesh, India  
April 2019 - March 2020

