

# Muthyalampalli Manvitha

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in Manvitha Reddy ○ ManvithaReddy05

## Objective

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Motivated and detail-oriented B.Tech student specializing in Data Science, seeking an entry-level role to apply analytical and programming skills in real-world problem solving. Eager to contribute to data-driven projects using Python, machine learning, and statistical analysis while continuing to grow as a data professional.

## Education

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**Vardhaman college of engineering**

*Aug 2023 – April 2027*

*Bachelors of Engineering in Computer Science and engineering(Data science)*

- CGPA: 9.4/10

## Experience

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**AI and ML intern**

*Online internship*

*NIELIT*

*Aug 2024 – Oct 2024*

- Developed a Driver Drowsiness Detection System leveraging artificial intelligence and machine learning techniques.
- Utilized computer vision with OpenCV and deep learning models to detect driver fatigue in real-time via webcam video feed.
- Conducted data preprocessing and feature extraction using eye aspect ratio (EAR) and mouth aspect ratio (MAR) to identify early signs of drowsiness.
- Implemented and compared models, including Haar cascades for facial landmark detection and CNN-based models for fatigue prediction, achieving high accuracy in detecting drowsiness.
- The CNN-based model demonstrated superior performance with a high detection rate and real-time responsiveness, ensuring reliable driver safety monitoring.

## Projects

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**Career Roadmaps**

- Developed an online platform offering structured career roadmaps with step-by-step learning paths in Backend and Frontend Development. Integrated curated resources, project-based learning, and AI-driven support. Implemented David, a 24/7 chatbot for personalized guidance.

**Tableau Dashboard**

- Designed and developed an interactive Tableau dashboard to analyze crime trends. Visualized key metrics including total crimes, crime distribution by day, month, and category.
- Tools Used: tableau

## Technical Skills

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**Languages:** C, python, Basic Java,HTML, SQL,CSS,JavaScript

**FrameWork and libraries:** Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn

**Developer Tools:** Git, GitHub, VS Code, Jupyter Notebook, MySQL

## Certification

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- Problem solving Basic HackerRank
- python Basic HackerRank
- problem solving through programming in c[Elite]-NPTEL IIT kharagpur

- programming in java - NPTEL IIT kharagpur
- data analytics using python[silver] - NPTEL IIT roorkee

## Coding Profiles

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- **HackerRank:** @manvithareddymu1 [↗](#)
- **LeetCode:** ManvithaReddy05 [↗](#)
- **GeeksforGeeks:** manvithareddyms8t8 [↗](#)
- **CodeChef:** manvitha45 [↗](#)