

# Laxmipathi Balaji Mittapalli

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[Linkedin](#) [Github](#) [Portfolio](#)

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## EDUCATION

**VNR Vignana Jyothi Institute of Engineering and Technology**  
Bachelor of technology in Computer science and data science; CGPA:9.40  
**New Vision Junior College**  
Intermediate Education – 98.10%

Hyderabad, India  
**November 2022-May 2026**  
Khammam, India  
**June 2020 -May 2022**

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## SKILLS SUMMARY

- **Languages:** Python, C++, Java, SQL, JavaScript
- **Frameworks:** NumPy, Pandas, Scikit-Learn, PyTorch, Keras, Transformers
- **Web Development:** React.js, Node.js, MongoDB, RESTful APIs
- **Tools:** Power BI, Google Colab, Tableau, MySQL
- **Soft Skills:** Problem solving, People Management, Teamwork, Time Management

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## PROJECTS

### Accident Detection | [LINK](#)

Developed an accident detection system using a Convolutional Neural Network (CNN) model built with TensorFlow and Keras. The model was trained on a labeled image dataset to differentiate between accident and non-accident images. The system includes real-time video feed processing through OpenCV, enabling live accident detection. The project involved data preprocessing, model training, and result visualization with Matplotlib.

### Neural Image Captioning | [LINK](#)

Developed an image caption generator utilizing RNN and LSTM models to generate descriptive text for images. Implemented a CNN for feature extraction and an LSTM network for caption generation.

### Emotion Detection In YouTube Comments | [LINK](#)

This project builds a sentiment analysis tool for YouTube comments using NLTK, TextBlob, Pandas, and Chart.js. It identifies and categorizes sentiments, analyzes patterns, highlights significant comments, and summarizes video transcripts to enhance the browsing experience.

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## ACHIEVEMENTS

- Attained a 3 -star ranking on **CodeChef** with a peak rating of 1658.
- Reached a peak rating of 1658 on **LeetCode**, placing in the top 20% of global coding competitors.
- Presented on 'Data Collection and Machine Learning in Smart Transportation' at the International Conference on Applied Mathematics and Advanced Analytics for Industry 5.0.

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## CERTIFICATES

- Microsoft Learn AI Skills Challenge (Microsoft) | [CERTIFICATE](#)
- Machine Learning Specialization (DeepLearning.AI) | [CERTIFICATE](#)
- Python for Data Science (NPTEL) | [CERTIFICATE](#)
- ICAMADA Research Paper Presentation (NRSC, ISRO) | [CERTIFICATE](#)