

# HARIKA TUMMALAPINTA

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## PROJECTS

### Deep Learning Based Image Captioning using CNN–LSTM with Interactive GUI

**Duration:** 6 months | **Technologies:** Python, CNN, LSTM, Tkinter/Streamlit, MS COCO / Flickr8k Dataset

- Designed and developed an image captioning system to generate natural language descriptions for images.
- Implemented CNN (ResNet/Inception) for visual feature extraction and LSTM with attention for caption generation.
- Built an interactive GUI enabling users to upload images and generate real-time captions.
- Application areas: assisting visually impaired individuals, education, healthcare, and social media automation.

## EDUCATION

Degree	Name of college	Year
B.Tech (ECE)	Gates Institute of Technology	8.7 (Jul 2025)
Intermediate	Sir C.V. Raman Jr. College	9.3 (Mar 2021)
Matriculation	S.P.M. High School	9.3 (Apr 2019)

## TECHNICAL SKILLS

**Programming & Frameworks:** Python, JavaScript, React JS, Redux, HTML, CSS, AJAX, JSON, jQuery, RESTful API

**Database & Tools:** SQL, GitHub, Webpack, Microsoft Excel

**AI/ML:** CNN, LSTM, Image Captioning, Deep Learning Fundamentals

**Operating Systems:** Windows, Linux (basic)

## STRENGTHS

- Strong analytical and problem-solving skills
- Quick learner and adaptable to new technologies
- Effective communication and teamwork
- Passionate about innovation and continuous learning