



# Kompally Akshatha

B.E - Computer Science and Engineering

Maturi Venkata Subbarao Engineering College (MVSR), Hyderabad

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## Internships and Projects

### Osmania University, Hyderabad

April 24 – June 24 (Current)

#### Deep Learning (DL) Intern

- Currently designing and developing an efficient **Automated Image Captioning and Speech synthesis system** which can be used to assist visually impaired ones, for digital content creation and for autonomous driving systems, using pre-trained VisionEncoderDecoder model combining ViT and GPT-2 for image captioning.
- Technologies Used:** Python, PyTorch, Transformers (Hugging Face), OpenCV, PIL, gTTS (Google Text-to-Speech).
- Features :** Enhanced image contrast using CLAHE to improve the quality of the input images. Implemented beam search with customizable beam width to enhance the quality of generated captions. Converted textual captions into speech and generated audio files for playback.

### Defence Research Development Laboratory (DRDL)

August 23 – September 23

#### Web Developer Intern

- Developed a dynamic, responsive and interactive web application for internal office communication to share data efficiently and securely. Worked on **Microsoft Front Page**, **Eclipse** and **Apache Tomcat** server for front end development and **Oracle** database for back end purpose.
- Languages used:** HTML, CSS, PHP and JavaScript for front end user interface and **Oracle** for back-end purpose

### Game Development

December 22- January 22

- Developed a high-quality animated video game for kids and adults with interactive and effective user interface with the help of 'Unreal' game engine.
- Used **AI-powered frameworks and modules** for high cutting-edge graphics and smooth and fair gameplay.
- It features a high degree of portability, supporting a wide range of desktop, mobile, console and virtual reality platforms.

## Skills

- Experienced:** C++, C, Python, Java, Algorithms and Data Structures, Database Management, MySQL, Oracle, Software Engineering.
- Intermediate:** HTML, CSS, php, JavaScript, Compiler Construction, Computer Networks, Operating Systems, Internet of Things (IOT), Microprocessor development and management, Artificial Intelligence and Machine Learning, hands on Linux.
- Familiar:** Xml, Kotlin, UML

## Education

- Maturi Venkata Subbarao (**MVSR**) Engineering College, Hyderabad (2021-2025)  
B.E—Computer Science and Engineering  
**CGPA: 9.58/10 (Current)**
- Narayana Junior College, Hyderabad (2019-2021)  
**MPC: 98.2%**
- Little Flower High School, Hyderabad (2019)  
**CGPA: 9.8/10**

## Achievements and Certifications

- '**Gold medalist**' for **2 consecutive years** in **Graduation** for Excellent Academic performance.
- Solved **150+** problems on **GeeksforGeeks**
- Runner-up** in **Grand Finale** in Techgig Code Gladiators, coding competition (2023).
- Semi Finalist** Techgig Code Gladiators, coding competition (2024).
- Top 9%** in Problem Solving in Hackerrank (5 start gold) - Solved 300+ problems
- Participated as a member of session committee in **DAPCom-2024**, International Conference on **Data Acquisition, Processing, and Communication**
- Certified in Google Cloud Skills Boost (currently in **Gold** league)
- Certified in Robotic Processing Automation (RPA), Java, C, C++, Python by Spoken Tutorial, IIT Bombay.