

# JASNAVI GANDHAM

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## Education

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**KG Reddy College of Engineering and Technology**, BTech in Computer Science Expected Graduation: 2025

- CGPA: 8.09
- **CS Fundamentals:** Data Structures, Algorithms, OOPs, Computer Networks, Operating Systems, Database Management Systems

## Skills

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- **Programming Languages:** Python
- **Markup Languages:** HTML
- **CS Fundamentals:** Data Structures, Algorithms, OOPs, Computer Networks, Operating Systems, Database Management Systems

## Projects

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**Sudoku Solver using OpenCV and CNN** Jan'24 – April'24

- Built a Sudoku solver using computer vision techniques (OpenCV) to extract digits from an image of a Sudoku puzzle.
- Utilized a Convolutional Neural Network (CNN) for digit recognition and solving the puzzle based on extracted digits.
- Implemented image preprocessing, digit recognition, and AI-driven pattern recognition to solve the Sudoku grid.

**Improving Alignment of Visual and Textual Data in Medical VQA Using Multimodal LLMs** July'24 – Present

- Focused on enhancing the alignment of visual and textual data in medical Visual Question Answering (VQA) using multimodal Large Language Models (LLMs).
- Leveraged transformer-based architectures, cross-modal attention, and fine-tuning on the VQA-RAD dataset.
- Developed a system to deliver accurate and clinically relevant answers to assist healthcare professionals.

## Achievements and Certifications

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- Awarded a cash prize of 5,000 at the project expo during the International Conference on Multidisciplinary Research and Sustainable Development (ICMED 2024).
- Completed an internship from YBI Foundation in Data Science Machine Learning.
- Completed the Python course in Cognitive Classes offered by IBM.
- Completed the Design Thinking course from IUCEE.
- Completed a Product Designing internship from Vector51 Design and Consulting.

## Roles of Responsibility

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- Taught HTML basics to over 100 juniors.
- Worked as Head of Publicity for the APP/WEB Development Club.
- Worked as Sponsorship Head for the College Technical Fest.
- Participated in the Intercultural Engineering Challenge by Florida International University (FIU).