

GOPIDI VIKRANTH REDDY

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EDUCATION

IIIT Kurnool

B.Tech in Computer Science - CGPA - 9.75

Kurnool, AP

Aug 2024 – Present

FIITJEE College

Maths, Physics and Chemistry - 95.5%

Hyderabad, TG

June 2022 – May 2024

EXPERIENCE

Cyber Security Intern

May 2025 – Jul 2025

Centre for Development of Advanced Computing (CDAC)

Noida, IN

- Completed 3 hands-on labs simulating real-world cybersecurity scenarios, including vulnerability scanning and web attack defense.
- Used **DirBuster** and **dirb** to enumerate over 1,000 potential hidden files and directories on DVWA.
- Applied manual and automated tools to identify at least 5 misconfigurations in simulated web applications.
- Certificate available on LinkedIn.

PROJECTS

Image Colorization using CNNs | *Python, OpenCV, PyTorch*

Jul 2025 – Present

- Building a CNN to convert grayscale images into color using 10,000+ image pairs.
- Preprocessing datasets by converting RGB images to L*a*b* space and separating lightness from color channels.
- Training the model in Google Colab with GPU acceleration and saving checkpoints to Google Drive.
- Visualizing results with side-by-side comparisons of original, grayscale, and colorized images.

Handwritten Digit Recognition using Neural Networks | *Python, PyTorch, MNIST*

May 2025 – June 2025

- Developed a neural network-based model to classify handwritten digits using the MNIST dataset.
- Preprocessed and normalized image data to improve training efficiency and accuracy.
- Trained the model using supervised learning and evaluated performance using accuracy metrics and confusion matrix.
- Visualized predictions and training performance using matplotlib to monitor learning progress.

CIFAR Image Classification | *Python, PyTorch*

Apr 2025 – May 2025

- Built a CNN model from scratch to classify 10 object categories in the CIFAR-10 dataset.
- Achieved 97% validation accuracy through dropout, batch normalization, and learning rate tuning.
- Trained on large number of images from the CIFAR dataset and tested using the test data.
- Code and documentation available on GitHub.

COMPETITIVE PROGRAMMING

Codeforces: Max rating of **1166**

CodeChef: Max rating of **1573** (2-Star)

TECHNICAL SKILLS

Languages: Python, SQL, C, C++

Developer Tools: Git, VS Code, Vim, Kaggle, Google Colab, Jupyter Notebook

Libraries: NumPy, pandas, OpenCV, Matplotlib, scikit-learn

Frameworks: PyTorch, FastAI