

# AMRIT VERMA

## National Institute of Technology Warangal

@ amritishoney@gmail.com @ av22chb0a46@student.nitw.ac.in  
📞 9502510306 📧 amrit-v306/ 📧 amritv0306



## SUMMARY

- B.Tech student at NIT Warangal with strong skills in Data Structures & Algorithms and OOPs. Experienced in full-stack development, OpenCV-based computer vision, and real-time applications. Proficient in Agile, Git, and team collaboration. Eager to contribute as a Software Engineering Intern.

## EXPERIENCE

### Indian Oil Corporation Limited

#### Intern, Technical Services

📅 May, 2024 - June, 2024 📍 Mathura, Uttar Pradesh

- Gained hands-on experience with industry-standard tools and methodologies
- Enhanced technical proficiency in refinery operations and process engineering

## TECHNICAL PROJECTS

### Queen Game Solver

#### Dynamic Programming, Computer Vision

📅 March, 2025

- Built an efficient solver using recursive backtracking with visual output overlays.
- Utilized OpenCV for color-based segmentation and Numpy for matrix mapping.
- Achieved a **95% improvement** in computational efficiency over brute-force approaches.
- <https://github.com/amritv0306/Queens-Game-Solver>

### Invisible Cloak (OpenCV Project)

#### Python, Real-time Video Processing

📅 June, 2024

- Implemented a real-time invisible cloak using frame differencing and color detection in Python.
- Optimized** color detection algorithms with 95% accuracy to identify a particular color and seamlessly overlay the replacement image to create an invisible cloak effect inspired by Harry Potter.
- Processed video at 30FPS
- <https://github.com/amritv0306/Invisible-Magic>

### Spam News Detection System

#### NLP, Python

📅 September, 2025

- Used NLTK and spaCy for spam detection in news articles.
- Preprocessed over 10K text entries with tokenization, stemming, and lemmatization.

## ACHIEVEMENTS



#### Certificate of Achievement

in Ninja Slayground 2.0, Coding Ninjas



#### 1st Price

ECE's IOT Hackathon, NIT Warangal



#### Certificate of Participation

among top 20% teams in HackWithIndia Hackathon

## SKILLS

#### Languages:

Python, C++, JavaScript, MySQL

#### Frameworks/Tools:

OpenCV, ReactJS, Git, VSCode, Numpy, Pandas

#### Concepts:

Data Structures & Algorithms, OOPs, REST APIs, Version Control, Agile

#### Soft Skills:

Teamwork, Leadership, Communication, Time Management

## COMPETITIVE PROGRAMMING

#### Leetcode

250+ problems solved | Rating: 1400

#### Code 360

200+ problems | EXP: 6000+ | Rating: 1500

## EDUCATION

### Bachelor of Technology in Chemical Engineering

#### National Institute of Technology, Warangal

📅 2022 - 2026

📍 Warangal

### Intermediate in Science

#### FIITJEE Jr College

📅 2019-2021

📍 Hyderabad