

# Tarun Jakkula

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🔗 <https://tarunjakkula.github.io/Portfolio/> 🌐 <https://github.com/TarunJakkula>

## 🎓 EDUCATION

### Bachelor of Engineering - Computer Science & engineering.

Maturi Venkata Subba Rao Engineering College

May 2020 – present | Hyderabad, India

Grade - 8.84 CGPA

### Intermediate - 12th.

Kendriya Vidyalaya Picket

Apr 2019 – Mar 2020 | Hyderabad, India

Grade - 93.4%

### SSC - 10th.

Kendriya Vidyalaya Picket

Apr 2017 – Mar 2018 | Hyderabad, India

Grade - 83%

## 💡 SKILLS

### Programming Languages:

Python, Java, C, C++

### Web Development:

JavaScript, React.js, Node.js, HTML, CSS

### Databases:

MongoDB, MySQL

### Full Stack:

MERN Stack

### Machine Learning:

TensorFlow, Keras, OpenCV

### Data Structures and Algorithms

## 📜 CERTIFICATES

- Paper presentation - INDIACOM IEEE conference.
- C certification - CISCO Networking Academy.
- Java & Python Certification - UNSCHOOL.
- Advanced Cpp - Spoken Tutorial (IIT BOMBAY).
- Machine Learning Foundations - AWS Academy.
- Database Programming - ORACLE Academy.
- Software Engineering - SAYLOR ACADEMY.
- NCC B Certificate - 5T Battalion (Extra circular).

## 📖 PUBLICATIONS

### Condition Monitoring of Brake Disc Images using Convolutional Neural Network 📄

IEEE

May 2023

## 🌐 LANGUAGES

English • Hindi • Telugu

## 📁 PROJECTS

### YaarIt

Web Development

Aug 2023 – present

- Spearheading team of 6 working together to design and build the website
- A customized website tailored for staying updated on current events.
- Showcases subscribed newsletters and provides comprehensive event particulars.
- Established and integrated a subscription-based framework into the website's core functionality.

### TSRTC Bus Tracking : Web Application

MERN Stack

Apr 2023 – Aug 2023

- With a team of 3, designed and developed a crowdsourcing-focused web application.
- Offers local bus users with user-friendly means to access and edit bus information.
- Aims to reduce travel time ranging from 20% to 40%.
- Link to the project on GitHub 📄.

### Condition Monitoring of Brake Disc

Machine learning

Feb 2022 – Apr 2023

- In collaboration with mechanical department of MVSREC.
- Involved collecting and pre-processing dataset of over 800 images.
- The project utilizes 3 frameworks in python (TensorFlow, Keras and OpenCV).
- Trained 3 different ML models on the dataset to predict brake disc health.
- The final model achieved accuracy rate of 97%.

## 💼 PROFESSIONAL EXPERIENCE

### GDSC MVSREC

Web Development Lead

Aug 2023 – present | Hyderabad, India

- Currently leading web development team of two at GDSC MVSREC.
- Actively seeking opportunities to contribute and to make meaningful impact.

### DRDO, Hyderabad

Summer Intern

May 2023 – Jun 2023 | Hyderabad, India

- Worked on QT cross-platform software.
- Gained proficiency in QT C++ and Qml by working on 2 projects.
- Designed and implemented a basic calculator as mini-project.
- Developed an aerospace pathfinder application as major project.