

Thribhuvan Sunkavalli

Final Year UG Student

Seeking Internship & Job Roles

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[GitHub Profile](#)

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Indian Institute of Information Technology, Design and Manufacturing,
Kancheepuram, Chennai-127

EDUCATION

• IIITDM Kancheepuram

Bachelor of Technology, Electronics and Communication Engineering, Minor in ML

2021-

CGPA: 8.65

EXPERIENCE

• Teaching Assistant

IIITDM Kancheepuram

August 2024 - April 2025

Chennai

- TA for the course "EC2004: Digital Circuits Practice", involving the hardware and Verilog implementation of digital circuits using latches and flip-flops, async/sync counters, shift registers, and others.
- TA for the course EC3005: Communication Systems Practice; Involving the simulation of various types of modulation techniques for transmission of information, such as AM, FM, PM, PSK, ASK, FSK using MATLAB Communication System Toolbox and HFSS.

• Hardware Design for Embedded Systems Intern

Microlink Information Technologies (MLIT)

May 2024 - August 2024

Vijayawada

- Worked upon contributing for the design and development of an IrDA electricity meter scanner in a cost-efficient manner.

• AI Intern

AICTE

May 2023 - September 2023

Remote

- Gained expertise in Image Processing, Signal Processing, Machine Learning and Deep Learning through using MATLAB, as a part of a Virtual Internship program offered by MathWorks and AICTE.

• FRT Intern

AICTE

May 2023 - July 2023

Remote

- Learnt about various Azure Cloud Services, and gained hands-on-experience through interactive sessions during a Virtual Internship program in collaboration with Microsoft, AICTE, FutureSkills Prime, and affiliate partners GitHub, and Foundit.
- Developed a functional and interactive Restaurant Website as a part of my Internship Project.

• Electronic System Designer

Mars Research Station, IIITDM Kancheepuram

April 2022 - January 2023

Chennai

- Technical Club in my Institute, where I collaborated with 19 students across all the disciplines to build an Autonomous Rover for Competitive Events such as ERC, ARC, URC.
- Worked on the design of Control Systems, Communication Systems and Power Electronics of the Rover.

PERSONAL PROJECTS

• BMI Prediction

ResNet50, CNN Pipelines

November 2024 - December 2024

- Attempt to predict BMI of a person using only their frontal and side-view facial images.

• Skew Correction

RotNet, CNNs

March 2024 - April 2024

- Built a RotNet architecture-based Deep Learning model through TensorFlow to correct images that are slanted, or skewed, using CNNs in the architecture. Achieved a test accuracy of 82% on an augmented dataset of 1000 images.

• Epilepsy Prediction

CNN, ResNet, Wavelet Transform, SCA, BSS, EMD

Feb 2024 - May 2024

- Developed a Deep Learning Model using CNNs for predicting epileptic seizures 10 minutes prior by utilizing EEG recordings, with an accuracy of 94%.

• Path Finding Agent

Pygame, A*, IDS, BFS, Python

March 2024 - April 2024

- Simulated an AI agent picking up an item and delivering it to the goal destination in the shortest and cost-efficient path by implementing A*, IDS, and BFS algorithms in Python, and utilizing Pygame library for visualization.
- **Automated Inventory Log** Jan 2024 - April 2024
Yolo, esp32cam, Arduino, CV
 - Automating Inventory Management by implementing multiple ESP32CAM Modules for capturing images, and processing them using CV to identify, quantify and localize items in a record file.
- **Primal-Dual Optimization** Nov 2023 - Dec 2023
Algorithm for smoothening a non-smooth optimization function
 - MATLAB implementation of Chambolle and Pock's Primal Dual Algorithm in conjunction with Tikhonov Regularization and a Gaussian Kernel for function generation.
- **Placements Analysis and Predictions** Aug 2023 - Nov 2023
Python, Pandas, Matplotlib, Seaborn, Random Forest Regression
 - Performed Data Analysis and applied ML models to analyze and predict placements statistics for my institution.
- **Restaurant Website** May 2023 - July 2023
Azure Static App for Web Deployment, Azure Blob Storage for storing the website data
 - Developed a functional and interactive Restaurant Website.
- **Deep Learning Model for Rice Classification** May 2023 - June 2023
CNNs, Pre-trained model VGG16
 - Classifying 5 major types of rice based on their shape.
- **Encrypted Serial Communication** Mar 2023 - Apr 2023
Arduino, cpp, encryption, ecc256
 - A library to enable encrypted communications over serial ports.

TECHNICAL SKILLS AND INTERESTS

Languages: Python, C++, C, Java, C#, HTML, CSS, JavaScript, SQL, R, Bash, PowerShell, Arduino, Verilog

Softwares: VSC, MATLAB, NI Multisim, NI LabVIEW, KeiluVision, Arduino IDE, Auto CAD

Frameworks/Libraries: .NET, Angular, React.js, Node.js, Tensorflow, PyTorch

Cloud: Microsoft Azure, Amazon Web Services

Soft Skills: Hard-worker, Patient, Consistent, Disciplined

Areas of Interest: Signal & Image Processing, AI, ML, DL

CERTIFICATIONS AND ACHIEVEMENTS

- **Foundational C# with Microsoft**, Microsoft
- **Google Cybersecurity**, Coursera
- **Google AI Essentials**, Coursera
- **JavaScript DSA**, freeCodeCamp
- **IBM Z Datathon**, IBM
- **Responsive Web Design**, freeCodeCamp
- **Deep Learning Onramp**, MathWorks
- **Image Processing Onramp**, MathWorks
- **Signal Processing Onramp**, MathWorks
- **AWS Cloud Essentials**, Amazon
- **Intermediate Machine Learning**, Kaggle
- **Problem Solving Intermediate**, HackerRank
- **Web Development with Python and Flask**, Jovian
- **6 Gold Medals, 1 Silver Medal** International Mathematics & Science Olympiad (IMO, ISO)

LANGUAGES

- **English**, C2
- **Telugu**, C2
- **Hindi**, A1
- **Spanish**, A1