Vishwaa M S

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EDUCATION

- **Vellore Institute of Technology, Vellore** — *September 2021 - June 2025*
  Bachelor of Technology - Electronics and Communication Engineering — CGPA : 9.02/10
  Coursework: *Operating Systems, Data Structures and Algorithms, Artificial Intelligence, Machine Learning, Computer Networks*

SKILLS

- **Languages :** Java, Javascript, Python
- **Frameworks :** NodeJS, ExpressJS, ReactJS, Flask, GraphQL
- **Tools :** Git, Github, Postman, Anaconda
- **Soft Skills :** Good Communication, Teamwork, Time Management, Leadership, Problem Solving

EXPERIENCE

- **Indian Telecomm Industries, Limited -** ⧉ — *August 2023*
  Technology Intern — Bangalore
  ○ I played a role at ITI Limited's Telecom Testing Lab, where I gained hands-on experience in EMI/EMC and 3D printing lab. Contributed to PCB design and manufacturing processes, including drilling, lamination, exposing, developing, plating, and solder masking. Assisted in projects like Digital Mobile Radios.

PROJECTS

- **Meal Connect** — **Github**
  Node.js, Express.js, MongoDB
  ○ Developed a platform for the DEVSOC'24 hackathon at VIT using Node.js, Express.js, MongoDB, HTML, CSS, and Bootstrap to streamline coordination between event organizers and NGOs. This solution effectively repurposes surplus food, reduces waste, and addresses hunger in marginalized communities through optimized donation and distribution processes.

- **YoChat** — **Github | Hosted Link**
  React.js, ChakraUI ,Node.js, Express.js, MongoDB
  ○ Developed YoChat, A fullstack chat application leveraging ReactJs, ChakraUI for UI, ExpressJS and RESTAPI. Utilized SocketIO for real-time messaging, alongside MongoDB for data management, with TypeScript ensuring code reliability and reduced errors.

- **Book-N-Park** — **Github**
  React.js, Node.js, Express.js, MongoDB, Material UI
  ○ Crafted Book-N-Park, An IoT based Smart Parking System utilizing Raspberry Pi and a Fullstack parking application leveraging ReactJs, MaterialII for UI, ExpressJS and RESTAPI. Utilized SocketIO for real-time logs, alongside MongoDB for data management, Designed to streamline parking at my college campus, allowing users to register vehicles, reserve slots, and mitigate traffic and parking disorganization effectively.

- **Weather Forcasting** — **Github | Hosted Link**
  HTML, CSS, Flask, OpenWeather API, Machine Learning
  ○ Developed this project using HTML, CSS, Flask, OpenWeather API, and Machine Learning to predict weather. Using ARIMA for time-series forecasting, it advises on agricultural irrigation and suggests efficient irrigation methods. Data collection involves OpenWeather API for hourly data from the past 48 hours to predict temperature and humidity.

PUBLICATIONS

- **Robust Iris Detection Using Machine Learning |** *IEEE AI-IoT (May 2024)* — **Link**
  ○ Co-authored to study and compare YOLO, ResNet, VGGNet and proposed CNN model.

- **Enhancing RIS-aided D2D communication for IoT applications |** *IEEE AI-IoT (May 2024)* — **Link**
  ○ Co-authored in optimizing RIS-aided D2D communication data rates under non-convex problems for IoT.

CERTIFICATIONS

- **NodeJS - The Complete Guide** — **Certificate**
- **Python For Machine Learning, Deep Learning and Neural Networks** — **Certificate**
- **JAVA Data Structure and Algorithms** — **Certificate**
- **The Complete Python Bootcamp** — **Certificate**

VOLUNTEER EXPERIENCE

- **IEEE Circuits and Systems (chapter)** — *March 2022 - December 2022*
  Core Committee Member — VIT, Vellore
  ○ Coordinated a series of impactful technical events with IEEE CAS, such as ImagifyAI (OpenCV), PCB Designing, Beyond IoT, and Embedded Technology; enhanced technological proficiency among students by 50% and participation rates by 40%
  ○ Supported in the smooth operation of 6 events over an academic year. Supported in the chapter's pursuit to conduct events throughout the academic year