



**Yash Shingavi**

Roll No.: 20BEE0213

B. Tech in Electrical and Electronics Engineering  
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GitHub Profile

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## EDUCATION

- Vellore Institute of Technology, Vellore** 2020-2024  
B. Tech in Electrical and Electronics Engineering CGPA: 8.91
- GG International School** 2018-2020  
Central Board of Secondary Education, Maharashtra Percentage: 87.6%
- Podar International School** 2016-2018  
Indian Certificate of Secondary Education, Maharashtra Percentage: 93%

## EXPERIENCE

- Maven Silicon** May 2023 - June 2023  
RTL Design and Verification Trainee
  - Designing a RISC-V RV32I processor using Verilog HDL
  - RTL code for the subblocks like PC block, Reg Blocks, Instruction Mux, Decoder, and Branch Unit etc.
  - Designing the top-level module for a RISC-V RV32I processor, incorporating all necessary sub-modules and their functionalities.
  - Performing testing and verification of the top-level module to ensure proper functionality of the RISC-V RV32I processor design.

## PERSONAL PROJECTS

- Smart Air Conditioning for Energy Conservation** November 2022  
Hardware and Software
  - Tools & Technologies used: NodeMCU, Sensors, Relay Module, Buzzer, Arduino IDE, Blynk
  - The project uses NodeMCU to wirelessly transmit temperature data from a DHT11 sensor to a dashboard. Based on the temperature thresholds (18°C and 24°C), the system automatically controls the AC and fan, turning them on or off to maintain comfort in the room when a person enters or leaves.
- Predicting Future Energy Consumption** June 2022  
Software Only
  - Tools & Technologies used: Visual Studio Code, Machine Learning
  - To predict energy consumption for upcoming periods, I employed the linear regression algorithm on a local machine. The project was implemented with the Python programming language and the Flask framework, while the data was sourced from Kaggle. End-users can provide a particular date and obtain an approximation of the expected energy consumption for that day.
- Creative Unleashed: My Responsive Personal Portfolio** May 2022  
Software Only
  - Tools used: Visual Studio Code and Github
  - I have created a responsive portfolio website featuring sections for Home, About Me, Work Experience, Skills, and Projects. The portfolio also showcases projects with brief descriptions and links for further exploration, resulting in a professional and visually appealing website.  
Click here to view my PORTFOLIO

## CERTIFICATIONS

- Python Developer Bootcamp in 2022 - Beginner to Expert, Udemy
- Responsive Web Design, freeCodeCamp
- HTML, CSS, and Javascript for Web Developers, Coursera (John Hopkins University)
- Solved 100+ problems across LeetCode, GeeksForGeeks, Coding Ninjas etc.

## TECHNICAL SKILLS AND INTERESTS

**Languages:** Java, Python, MATLAB, HTML, CSS and Javascripts, Assembly Language

**Skills:** IoT, Machine Learning, Frontend Development, VLSI Design

**Frameworks:** Flask, Selenium, Tkinter