

# Kiah Vaidya

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## Academic Projects

### Elevator Controller using Verilog (VHDL)

- Designed and implemented an elevator controller using Verilog based on finite state machine (FSM) principles.
- Simulated and verified the design for efficient floor selection, door control, and direction management in cadence.

### Flight Fare Prediction

- Built an ML model to predict flight ticket prices using regression techniques.

### F1 race Prediction

- Developed a data-driven regression model leveraging race statistics and driver performance to forecast Formula 1 race outcomes with predictive insights.

### Portfolio Website

- A personal portfolio website highlighting my work, expertise, and achievements.
- Built a dynamic, user-friendly web application using html, js and react.

### Voice Assistant

- A Python-based voice assistant powered by the ElevenLabs Conversational AI API.

### Discord Meme Bot

- A Python-based simple bot that replies with a random meme from Reddit when you type \$meme.

### Battery Level Indicator Circuit

- Designed a battery level indicator using comparators and voltage dividers to display real-time charge levels, ensuring efficient power management and preventing over-discharge.

### Multilingual Social Media Toxicity Analyzer

- Built an NLP model to detect social media toxicity in English and Hinglish.
- Trained custom model and integrated YouTube, Twitter and Reddit APIs for real-time analysis.

### COA Flappy Bird Game

- Implemented a Flappy Bird game simulation using assembly language

### Python Memory Game

- Developed a memory-based game in Python using Tkinter, with an interactive scoring system.

## **Education**

T.E Electronics and Computer Science

VIT- Wadala, CGPA –9.35

12<sup>th</sup>( Senior Secondary Examination)

St. Xaviers College, HSC Board- 69.50%

10<sup>th</sup> (Secondary Examination)

Children's Academy, ICSE Board- 96.40%

## **Technical skills**

- Programming Languages- Python
- Web Technologies- MySQL, HTML, CSS, JavaScript
- Software: Matlab, AutoCAD, Canva

## **Certifications**

- Harvad's Cs50 (edx)
- Machine Learning with Python (L&T)
- Python Bootcamp (Udemy)
- TCS ion Career Edge- Young Professional (TCS ion)
- Java Programming Fundamentals (Infosys)
- VLSI System on Chip Design – Overview (Maven Silicon)
- MATLAB Onramp, Fundamentals and Simulink (MATLAB)

## **Extra-curricular Activities**

- **Creatives Head – ECSA:** Led and mentored the creatives team, driving cohesive design strategy and impactful visual communication for association initiatives.
- **Student Council (Cultural & Creatives Team):** Designed and executed large-scale event installations, contributing to planning and seamless execution of major cultural programs.
- **Media Team – GDG:** Created engaging digital content and managed branding across platforms, boosting outreach and community engagement.
- **Volunteer at Kamal Foundation:** Organized community outreach programs, including donation drives and clean-up campaigns supporting underprivileged groups. Strengthened teamwork and leadership skills by coordinating volunteers and engaging with local communities.
- **Creative Freelancer:** Conceptualized and executed innovative design projects, demonstrating expertise in digital and print media.