

Parth R. Thakkar

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Education

July 2019 | **B.E. in Electronics & Communication**, *L.D. College of Engineering*, GPA:
July 2023 8.8, *Navrangpura, Ahmedabad*.

Experience

- Jan 2019 – **Python Developer**, *M2M door*, Ahmedabad, India.
- July 2019 ○ I have developed a market making bot for the cryptocurrency CITRUS, utilizing the programming language Python, with the purpose of stabilizing the coin's market by providing liquidity and mitigating volatility.
- 2019 – 2020 **Backend Developer**, *Lakshya Fest 2k20*, LDCE, Ahmedabad.
- I have successfully created and implemented swift API routes for Lakshya Techfest 2020. This included deploying and thoroughly testing the website to ensure it functioned optimally. The website was developed utilizing the Django framework
- June 2020 – **Backend Developer**, *Purple & Cream*, India.
- March 2020 ○ I have designed and developed a website that is similar to Stackoverflow, but tailored to the film industry. The website allows users to ask and answer questions related to the film industry, as well as share knowledge and resources. The website also includes features such as voting, commenting, and user profiles
- Sept 2022 – **Embedded Developer**, *Griden Power - An EV Charger Company*, Bopal,
Present Ahmedabad.
- As a firmware developer, I learned many things like PCB designing and advance C++
○ Worked on MQTT protocols, designed PCBs for EV chargers and Worked on IoT and Arduino OCPP
- Oct 2022 – **Firmware Developer**, *Scan point geomatics*, India.
- Jan 2022 ○ UHF reader and ESP32 for detection of determining range/distance of RFID tags
○ Created Product for Long range RFID detection, Designed and Manufactured full fledged product Worked on UHF reader, ESP32, Touch screen

Skills

Python & Django, Docker, Embedded C, C & C++, Javascript, SASS, Tailwind, OpenCV, Tensorflow/Keras, Scikit Learn, DSA

Projects

8-bit CPU, *Digital System Design*.

This CPU is composed from basic transistor-transistor-logic, and is capable of executing basic programs such as fibonacci series, addition, subtraction. As an embedded system it is equipped with all necessary core blocks.

<https://tinyurl.com/2htnqlu4>

LogUp - Attendance System with Decentralized Face Recognition, *Django, Tensorflow, keras, Channels, AWS*.

This website has been created for an offline attendance system, it includes features such as sessions, surveillance and working hour tracking. Utilizing machine learning, it builds a unique student model and uses webcams for attendance.

<https://github.com/parthishere/Login-With-Face-Recognition>

AI smart spectacles, *Tensorflow, OpenCV, Raspberry-PI*.

I have developed smart goggles for visually impaired individuals that can distinguish between people and objects. It can also identify objects and the surrounding environment, which can be relayed to the user through speakers integrated into the goggles.

Basic Machine learning model, *Python and Numpy*.

Created All the basic Machine learning models from scratch in python (NN, Decision Tree, Naive Bays, Regression, K means, KNN and more.)

<https://github.com/parthishere?tab=repositories>

Autonomous Car, *Tensorflow, OpenCV, Raspberry-PI, Arduino, Motor Drivers*.

The vehicle is equipped with the ability to automatically detect lane markings, objects, and obstacles. Furthermore, it is capable of taking appropriate actions to circumvent any detected obstacles and objects.

IoT Ecosystem from Scratch, *Django, PostgreSQL, Django-Rest-Framework, ESP32, C++ and React..*

In this project, an IoT platform was developed comprising a website for server-side rendering utilizing the Django framework and an ESP32/ESP8266 for client-side rendering. Additionally, a cloud API and app were created to facilitate communication with the server and an ESP32 library was developed to enable communication between all aforementioned components.

<https://github.com/parthishere/HomeAutomation>

Awards

All India rank 76, in Indian Science Olympiad, .

Trained for 2 years in Naval unit., .