

Yash Khatri

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EDUCATION

National Institute of Technology, Tiruchirappalli | Mechanical Engineering

Expected: May 2023

- CGPA: 8.29 / 10
- Event Manager, Task-Force - NITT
- Event Coordinator, Pragyan – NITT
- Organising Committee, Aaveg – NIT

EXPERIENCE

Research and Development Intern

June 2021 – August 2021

Mele Robotics | Dubai, U.A.E

- Researched on the latest used engines various parts for UAVs. Use of SolidWorks for complex 3-D Structures.
- Exposed to Gearbox designing using Kiss soft and SolidWorks and the necessary calculations behind them.

PROJECTS

Nasa-Project

- Created a **React app** where the user enters details to initiate a launch to a planet. We used Kepler's data from NASA Exoplanet Archive. Using **express** we parsed the csv file and made a list of habitable planets using viable conditions.
- Applying the **MVC framework**, created separate folders for the model, controller, and routes. Created APIs' which were responsible for getting the launches to the launches route and aborting the launches.
- With the help of **postman**, we first confirmed the working of each API by hard coding details. Later, used the details from frontend to make the require changes. Used **GET, POST, and DELETE** methods for this project

Face Detector

- Created a site using **React**. Made use of various available **CSS** tools for neatness in the site and made use of **particlejs**.
- Worked with multiple routes and tested them using **postman**. Made use of a public API from **Clarafai** for the detection.
- In our API for the site, we used **bcrypt** to maintain the security and **knex** to connect with the frontend.
- Finally, we used **herokuapp** to form the app and used **PostgreSQL** to store users' data and useful information.

Skim-Lit

- **Pre-processing** the data to get the lines and features in the desired format with which we could analyse it in pandas.
- Made use of **Text and Character Vectorization and Embeddings**, and **Feature Engineering** to create models.
- Used **Functional API** and combined multiple model's inputs and outputs to get a result of over **80% accuracy**.

Bit-Predict

- Pre-processed the data with **Sliding Window** approach to sort the data with **HORIZON** and **WINDOW** size.
- Tested multiple model such as **N-Beats ResNET** and **Ensemble Model** with various loss functions.
- Obtained a model to forecast the price of bitcoin with an accuracy of **83.52%**.

SKILLS

Machine Learning | Deep Learning | TensorFlow | Python | JavaScript | SQL | Node | React | Express | Data Analysis

- Data Science & Machine Learning Bootcamp – Udemy
- Web Developer: Zero to Mastery – Udemy
- Python Developer: Zero to Mastery – Udemy
- TensorFlow Developer: Zero to Mastery – Udemy

POSITIONS OF RESPONSIBILITY

- **Event Manager, Task-Force – NITT** February 2021 – Present
 - Provided help to the candidates of the student council election.
 - Ideated various initiatives to provide a better lifestyle for the students on campus
 - Created a video for the club.
- **Executive Member, Competitions Team, HOPE** February 2021 – June 2021
 - An NGO that works towards the betterment of the environment
 - Hosted an online competition related to sustainable development.
 - It involves establishing all the criteria such as rules, judges, and rewards.
- **College Ambassador, Cuvette Tech** February 2021 – April 2021
 - A platform to connect students and software companies.
 - To execute marketing events, contests, workshops, tech talks, and quizzes.
 - Involved strategic collaboration with the clubs, societies, and fests happening on campus.
 - Carried out an online event for college students.
- **Coordinator, Events Team, Pragyan – NITT** October 2020 – June 2021
 - Finding various ideas for technical events and coming up with all the necessary criteria
 - Successfully hosting the events online such in Phronesis and Bytehoc.
- **Organising Committee, Aaveg – NITT** October 2019 – March 2020
 - Prepared the pre-show for the event.
 - Took part in the ideation and conducted various events.
 - Worked on the ambiance for the main event.

EXTRACURRICULAR ACTIVITIES / VOLUNTEERING

- Part of the Basketball Team on NIT – Tiruchirappalli.
- Secured Second place in Choreonite in Aaveg'20 – the inter-hostel cultural fest organised by NIT Trichy.
- Volunteered as an Executive Member of 'HOPE' NGO that works for the betterment of the environment.