

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

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%.

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 various models.
- Used Functional API and combined multiple model's inputs and outputs to get a result of over 80% accuracy.

Web Development

- Created a site using React. Made use of various available CSS tools for neatness in the site.
- We tested our links which were created using expressjs in postman. After making those checks we begin with backend.
- 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.

Handwritten Digit (MNIST)

- Used the MNIST dataset of handwritten numbers to make a Neural Network.
- Applied tensorflow.js to connect the model created with the site where the user would enter a digit between 0-9 on the canvas, using their entry on the canvas we pre-process the data using OpenCV tools.
- After pre-processing we apply logic on the output and compare it with our TensorFlow model. If correct there is a change of display background as an indication.

SKILLS

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

- Complete 2022 Data Science & Machine Learning Bootcamp – Udemy
- Complete Web Developer in 2022: Zero to Mastery – Udemy
- Complete Python Developer in 2022: Zero to Mastery – Udemy
- TensorFlow Developer Certificate in 2022: 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.