Yash Khatri

+971501045291 • Dubai, U.A.E • yashr124@gmail.com Yash Khatri | Geek.

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 simple sequential Dense model, Conv1D model, LSTM model, N-Beats model with double residual connections 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.

Handwritten Digit (MNIST)

- Used the MNIST dataset of handwritten numbers to make a Neural Network.
- Used HTML, JavaScript, and CSS to make a small website to test the predictions of the dataset.
- Applied tensorflow.js into the html to use the TensorFlow model created in Jupyter Notebook.
- A Mathematical 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 | SolidWorks | Ansys | 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.