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B.Tech.
Gender: Male
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Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2023	

PROFESSIONAL EXPERIENCE

Data Science Intern | Infogen Labs Pvt. Ltd.

[May '21 - Jul '21]

- Designed a Multilingual **Chatbot** using NLU and **NLP** concepts in Rasa conversational framework
- Processed texts in English, French, German and Hindi languages using the **SpaCy** NLP library in order to understand intents, and output actions for given situations and questions
- Deployed the bot for widespread use, implementing Bootstrap in CSS, and **Flask API** for the frontend part

KEY PROJECTS

Object Recognition on CIFAR-10 Dataset | Self Project

[June '21]

- Performed **object detection** on the CIFAR-10 dataset using **TensorFlow** and **Keras** libraries in Python
- Determined object present in the images among 10 distinct classes with a validation set **accuracy of 85.2%**
- Made use of the Sequential API in TensorFlow, and used **Conv2D** layers to prepare the prediction model

Sentiment Analysis on IMDB Reviews | Course Project

[May '21]

Natural Language Processing in TensorFlow | DeepLearning.AI

- Executed analysis on IMDB Reviews Dataset to predict whether movie reviews are positive or negative
- Applied **tokenizer** to train word vector embeddings of **10000 words** to classify words by their meanings
- Used Bidirectional and Unidirectional **LSTMs** along with dense layers in the model to make predictions, achieving **peak accuracies** of **84.6%** on the validation set and **94.6%** on the test set data

Object Localization on Bird Images | Course Project

[July '21]

Advanced Computer Vision with TensorFlow | DeepLearning.AI

- Created **object localization** model to find position of birds on images from the Caltech Birds dataset
- Implemented the Functional API of TensorFlow to create the model in order to get multi-layer output
- Incorporated **MobilenetV2** from the TensorFlow library into the model and achieved an **intersection over union score** greater than 0.5 on **69.4%** of the images in the validation set

Spaceflight Mission Design | Course Project | IIT Bombay

[April '21]

Guide: Prof. Ashok Joshi | Course: Spaceflight Mechanics

- Determined **orbit** and **trajectory** of Shavit-1 rocket by examining orbital specifications from official data
- Ascertained relation between nature of the trajectory with objectives of the mission using given parameters
- Independently **created nominal trajectory** of the launch vehicle, with self-designed manoeuvres thus obtaining final orbital **velocity and height** each with an **accuracy** greater than **99.5%** to the original data

POSITIONS OF RESPONSIBILITY

Events Coordinator | E-Cell | IIT Bombay

[Apr '20- Jun '20]

Asia's largest student-run Entrepreneurship promoting organization

- Contributed actively in the execution of Business planning competition Eureka Junior with 1500+ entries
- Facilitated the smooth functioning of Eureka Junior Workshops, as a coordinator, which saw a 40% year on year increase in participants from schools across the country
- Worked as an Organizer at the E-Summit Speaker Sessions having a footfall of 30,000+ people

TECHNICAL SKILLS

Languages/ Softwares: C++, Java, Python, MATLAB, LaTeX, AutoCAD, HTML

Specializations: Computer Vision, NLP, Sequence Models, Data Structures and Algorithms, Flask API

ML Frameworks: TensorFlow, Keras

ONLINE COURSES

- Machine Learning Course, Stanford University by Prof. Andrew Ng on Coursera [20]
- Deep Learning Specialization (including CNNs, NLP and sequence models), DeepLearning.AI on Coursera [21]
- DeepLearning.AI TensorFlow Developer Professional Certificate [21]

ACHIEVEMENTS AND EXTRACURRICULAR ACTIVITIES

- Achieved a percentile of 99.02 in the JEE Advanced examination out of 200,000 candidates [19]
- Secured a percentile of 99.63 in the JEE Mains examination out of 1.1 million candidates [19]
- Selected out of 300+ students for National Sports Organisation (NSO) Classical Music (Tabla) [20]
- Participated in **Open-Mics** and Performed **Stand-up comedy** in front of audiences of 150+ people [20]