AVNEET SHARMA

B.Tech, Information and Communication Technology with Minor in Computational Science

EDUCATION

Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT)

CPI: 7.90

October 2021 - Present

Q Gandhinagar, Gujarat

Class 12th School (CBSE)

Percentage: 89.4%

2019 - 2021

♀ Indore, Madhya Pradesh

Class 10th School (CBSE)

Percentage: 97.6%

2018 - 2019

◊ Indore, Madhya Pradesh

SKILLS

Areas of Interest: ML, Web Development, DSA

Programming Languages: C, C++, Python,

JavaScript, MATLAB

Tools and Technologies : HTML, CSS, Django,

Tkinter

EXPERIENCE

IIIT Allahabad:

may 2023 - June 2023

• I implemented a solution for Indian Sign Language recognition using transfer learning by using a pretrained EfficientNet-B7 model followed by a custom ConvNet. Then I fine-tuned the BERT uncased model for forming sentences using the predicted words.

• Guide: Prof. US Tiwary

Zhejiang University, China (Remote):

April 2023 - Present

• I am working on minimizing the prediction loss of neural networks using a loss function inspired from a damped harmonic oscillator.

• Guide: Dr. Himadri Barman

PROJECTS

Indian Sign Language Recognition using Deep Learning:

may 2023 - June 2023

• Refer to the experience section.

Chatbot using OpenAl's API:

• I created a chatbot that connects to OpenAI with an API key, queries the engine, and parses the responses. I hosted it using Django.

Descent Control and Mechanical Subsystem for a CanSat:

H July 2022 - October 2022

- Member of DA-IICT's 8-member team in CanSat India 2022. Qualified for PDR presentation.
- Guide: Prof. Rutu Parekh, Prof. Yash Vasavada

Autonomous Minidrone Line Follower Algorithm:

June 2022 - August 2022

- Member of DA-IICT's team in Math-Works Minidrone Competition 2022.
- Guide: Prof. Nalin Kumar Sharma, Mr. Aditya Bhope

Customer Churn Prediction for Telecom Service Providers:

June 2022 - August 2022

• I performed binary classification on customer churn data for a telecom company using several classifiers to predict if a customer will keep using the company's services or not.

POSITIONS OF RESPONSIBILITY

Research Club

Core Member

December 2022 - Present

Headrush

Core Member

December 2022 - Present

Electronics Hobbies Club

Associate Member

August 2022 - Present

Presswale

Editor

July 2022 - Present

IEEE Student Branch DA-IICT

Executive Committee Member

February 2022 - Present

ACHIEVEMENTS

- NIUS (Physics) Batch 19 Scholar: Offered by HBCSE-TIFR, Mumbai, selected among 65 students across India
- IOQP Stage 1 (NSEP) Qualified: Selected among 347 students across India
- KVPY SA Stage 1 Qualified
- NTSE Scholar: Most prestigious central government scholarship at high school level, selected among top 2103 candidates in India