



Vankani Arjun

Machine Learning Enthusiastic | Data scientists Enthusiastic.

Master's student with expertise in Machine Learning and Deep Learning for computer vision and Natural language Processing. Passionate about exploring new software tools and technologies. Working with Opencv, Tensorflow, Pytorch, Sklearn, Powerbi, Tableau, RNN, CNN, NLP, Neural network, and Andriod.



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SKILLS

C

C++

Java

ML

Python

Machine Learning

Recommndation System

Deep Learning

Data Scientist

Powerbi

Tableau

Data Analysis

EDUCATION

MTech - ICT (Specialization Machine Learning)

Dhirubhai Ambani Institute of Information and Communication Technology

07/2022 - Present,

7.48

Bachelor of Engineering (Computer Engineering)

Government Engineering College, Bhavnagar

07/2018 - 07/2022,

9.13

Higher Secondary Education

Gujarat Secondary and Higher Secondary Education Board (GSHEB)

05/2016 - 05/2018,

81.84%

Secondary Education

Gujarat Secondary Education Board (GSEB)

05/2015 - 05/2016,

84.33%

WORK EXPERIENCE

Dhirubhai Ambani Institute of Information and Communication Technology(DAICT)

Teaching Assistant

03/2023 - Present,

Subjects

▫ (MC122) - Object Oriented Programming **Guide: Prof. Naveen Kumar**

▫ (IT112 / IT113) - Introduction to Programming **Guide: Prof. Manish Khare and Prof. Bakul Gohel**

▫ (IT603) - Programming Course **Guide: Prof. Lavneet Singh**

• Handling all the work for the labs and assigning work to all other TAs, as well as taking labs and tutorials for B.tech, B.Tech MNC, and MSC IT students, Teaching them C language and DSA, JAVA, and OOP concepts.

Floatbot

Intern as NLP Engineer

03/202 - Present,

Subjects

▫ Floatbot is building Voicebot and Chatbot for different Businesses, so I have to create NLP based Indic language models. • **Guide: Prof. Kamlesh Makwana, Atik Turiya**

ACHIEVEMENTS

- Awarded Shri Dewang Mehta IT award for being the Top Ranker (2022) in academics during Bachelor of Engineering
- Won 3rd Rank for ROBOFEST 2.0 EVENT, Organized by GUJCOST
- Received SSIP Grant for Virtual Interviewer with the help of AI Project.
- Won a top 4 best idea representation at ANWESHA Event for Startup.

INTERESTS

PERSONAL PROJECTS

Python

Tensorflow

Deep Learning

Opencv

NLTK

Data Science

1) Object Identification and Segmentation Methods for Surveillance Videos:

- Advanced object identification and segmentation methods like CNN and deep learning methods for surveillance videos.
- Comparing different Yolo versions and object tracking.
- The objective is to enhance video analysis and monitoring capabilities by accurately detecting and segmenting objects of interest.
- Their applications in security, public safety, and intelligent video analytics.

Guide: Prof. Manish Khare, Prof. Amit Mankodi

2) Image Captioning:

- Using the attention-based and CNN-LSTM methods, we tried to improve the result by correcting the BLUE score of true image captions.
- The goal is to generate accurate and descriptive captions for images by leveraging CNN for image feature extraction and RNN for language modeling.

Guide: Prof. Rachit Chhaya

3) Movie Recommendation System:

- Collaborative filtering techniques provide personalized movie recommendations to users based on their past preferences and similar user behavior.
- Deploy on FastAPI to get results on the webpage and quickly.

Guide: Prof. Arpit Rana

4) Human Activity Recognition:

- By utilizing CNNs to extract spatial features and LSTM networks to capture temporal dependencies, the proposed system achieves robust and accurate activity classification.
- The project involves constructing a hybrid CNN-LSTM architecture and training the model on a large dataset.
- The results demonstrate HAR applications in healthcare, fitness, and surveillance.

Guide: Prof. Manjunath Joshi

5) NLP Models for Indic Languages:

- Building NLP model for Gujarati and Hindi languages, which means the machine can understand and identify, fill in the blank, and classify the news category.
- Mainly, I have built a specific model on understanding language and deploying on docker with fast API.

Guide: Prof. Kamlesh Makwana, Atik Turiya

6) GPS Rover:

- GUJCOST 2.0 ROBOFEST Program build GPS rover for Military and Fire safety purpose.

Guide: Prof. Karshan Kandoriya

Certified Courses

- Python for Data Science, AI Development (IBM)
- Applied Machine Learning in Python (University of Michigan)
- Data Analysis with R Programming (Google)
- MERN Stack- Building your own Instagram (Udemy)
- ROS2 Self Driving Car with Deep Learning and Computer Vision (Udemy)