

Harshit

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📍 Sirsa, Haryana

in LinkedIn

🐙 Github

🖱 Portfolio

EDUCATION

National Institute of Technology

Bachelors of Technology in Electrical Engineering

2021 – present

Kurukshetra, India

D. A. V. Centenary Public School, Sirsa

Higher Secondary School

2019 – 2021

Sirsa

TECHNICAL SKILLS

Programming Languages

c, c++, javascript, python, MATLAB Simulink, HTML, CSS, SQL

libraries

Numpy, Pandas, TensorFlow, Keras, OpenAI Gym, matplotlib, OpenCV, MediaPipe, PyAutoGUI, scikit-learn, Seaborn

Data Structure and Algorithms in C++

AutoCad

Autodesk Fusion 360

Developer Tools

Visual Studio Code, Jupyter Notebook, PyCharm, Google Colab

PROJECTS

Sign Language Detection using ACTION RECOGNITION

- Extract **MediaPipe Holistic Keypoints** with the help of mediapipe library.
- Build a Sign Language model using a Action Detection powered by **LSTM layers** (Tensorflow and Keras to build a deep neural network that leverages LSTM layers to handle the sequence of keypoints.)
- Predict sign language in real time using video sequences in OpenCV

Facial Recognition App with Tensorflow and Kivy

- Build a deep facial recognition application to authenticate into an application.
- A model using Deep Learning with Tensorflow which replicates what is shown in the paper titled **Siamese Neural Networks** for One-shot Image Recognition.
- Once that's all trained then integrate it into a **Kivy app** and actually authenticate!

Real Estate Price Prediction website

- A model using sklearn and linear regression using banglore home prices dataset from kaggle.com.
- Python flask server that uses the saved model to serve http requests.
- Website built in **html, css and javascript** that allows user to enter home square ft area, bedrooms etc and it will call **python flask server to retrieve the predicted price.**
- Data science concepts such as *data load and cleaning, outlier detection and removal, feature engineering, dimensionality reduction, gridsearchcv for hyperparameter tuning, k fold cross validation etc.*

AI Virtual Painter

- Track our hand and get its landmarks using mediapipe library **MediaPipe Hand Landmarker** task lets you detect the landmarks of the hands in an image and then use the points to draw on the screen.
- Two fingers for selection and one finger for **drawing in real-time.**

LANGUAGES

English | Hindi | Punjabi

INTERESTS

Reinforcement Learning, Computer Vision, Robotics, Artificial Intelligence, ML

EXTRACURRICULAR

Played Vijay Merchant Trophy (U16 National level tournament) for Haryana Cricket Association

BCCI

- Selected as a *left hand bowling and right hand batting* blowing all-rounder

Highest Wicket Taker as a medium fast bowler in U14 state Tournament

Haryana Cricket Association | BCCI

2nd runner up in Haryana State level Cricket Tournament

Government of Haryana

- Played as a main opening bowler for the team

Badged Bronze medal in Men's Wushu at District Level Tournament | Haryana

Khelo india youth games

Winner at U14 District Basketball Tournament

Haryana Basketball Association

- Played as power forward in the team

ORGANIZATIONS

Embedded System and Robotics Club (EMR) | NIT Kurukshetra

2022 – present

- Volunteered in EMR bot workshop in which we delivered Information about making and working of the **line follower and remote controlled bot** .
- Attended **DIP (Digital Image Processing)** workshop organised by EMR in which we learned about OpenCV , numpy , python etc, and made a **Gesture control video player** project .

COURSES

Machine Learning Specialization - Stanford | DeepLearning .AI

by Andrew Ng

- Supervised Machine Learning : Regression and Classification
- Advanced Learning Algorithms
- Unsupervised Learning, Recommenders, Reinforcement Learning

The Complete Python Bootcamp From Zero to Hero in Python - Udemy

by Jose Portilla

Offline/ University Courses

Kurukshetra, India

NIT Kurukshetra

- Basic of programming
- Modeling and Simulation
- Differential and Integral Calculus
- Control System
- Matrix Algebra