



## education

### b. tech | computer science

iiit-h | 2019-present

- research: computer vision
- advisor: C.V. Jawahar

### academic achievements

- qualified JEE mains
- School, City and state level Science Olympiad
- JKPMSSS scholar
- 12th class percentage: 94.6

## coursework

machine learning\*

linear algebra

algorithms

artificial intelligence

graphics

data structures

operating systems

software systems analysis and design

## skills

### languages

python • pytorch

javascript • matlab

c++ • c • java

golang • bash

### general

languages

english • urdu • hindi • Kashmiri

software

LaTeX • photoshop

os

linux • mac • windows

ides

jupyter • nano • vim

### co-curricular

School Football Team Captain

Part of college football team

## research

### cvit | undergraduate research | may 2019, iiit

Working at Centre for Visual Information Technology with Prof C V Jawahar on Generating realistic talking faces for any human speech and face identity.

## projects

### ai bot | team project

- An artificial intelligent agent was coded in python using custom heuristics and Alpha-Beta pruning on mini-max decision trees to play Ultimate-Tic-Tac-Toe.
- The bot reached semi finals of the competition in which over 40 bots participated.

### flask-music-app | team project

- A Simple Music web app with flask as framework in python, sql as database.
- The app can play music, manage play lists, download songs and stream them online.

### bears | computer vision

- A deep learning model in fast-ai for identifying different kinds of bears.
- The model in the end had an accuracy near 99 percentage.

### terminal shell | c++ / c

- A custom terminal shell was coded in C++ based on the POSIX architecture with integrated syscalls.
- All common shell commands had native support with syscalls used for less commonly used commands.

### automation-of-slide-matching | opencv

- A model trained to match the noisy slide images with original slide images.
- This project was done as a part of DSAA coursework.

### proxy server | python

- A multi-threaded HTTP proxy server, which can handle and serve many requests using sockets.
- A proxy server implemented via python socket programming with caching, blacklisting, authentication functionality.

### airplane 3d | opengl

- A 3D airplane simulator game.
- All the motions of plane were simulated with different camera angles.

### subway surfer jetpack joyride | webgl opengl

- Recreated these famous games as part of graphics coursework.

### quiz app | golang, react

- Implemented a web based quiz app as part of SSAD coursework.
- Frontend was done in ReactJS and backend in Golang.

