Hrsh Venket

ASHOKA UNIVERSITY - COMPUTER SCIENCE MAJOR

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EDUCATION

BSc Computer Science second year student (Pursuing)

Ashoka University (2021–Present)

- Data Structures A; Probability and Statistics A; Intro to Machine Learning A

A Levels

APL Global School, Chennai (2017–2021)

- AAAA (Physics, Mathematics, Economics, Classicial Studies)

TECHNICAL SKILLS

Programming Languages Python3, ,C/C++,

Tools: LATEX, Git, GDScript (Godot), Docker, Excel

Languages: Fluent in English. Conversational Fluency in Tamil, Hindi, and German

EXPERIENCE

Mphasis Lab

Research Assistant

Ashoka University (August 10 2023 - Present)

- Remote sensing work with Professor Meghna Agarwal to build a forest fire classifier using LANDSAT time series data. currently working on training an LSTM
- Worked with Google Earth Engine Python API, and currently working on a literature review

Intro to Machine Learning

Teaching Assistant

Ashoka University (Monsoon 2023 semester)

- Worked on Grading of Assignments and writing marking schemes for 80+ Students
- Took 25+ hours of Office Hours and worked on assessing 30+ Projects

Ashoka University

Research Assistant

Ashoka University ((January 2023 - August 2023))

- I worked with a Phd Student from AP Lab (Bio) and Professor Raghavendra Singha (CS)
- Used OpenCV to measure measure intestinal deformations in microscopic roundworm C.elegans via 3D reconstruction

IIT Madras

Game Design Internship

Chennai, India (Summer 2021)

- Helped build games to teach professional behaviour to students (in association with IIT CASH)

PROJECTS

Click here for more detailed writeups on my completed projects

3D Reconstruction using ML

Ashoka University (January 2024 - Present)

- Working on training a model to learning projective geometry for 3D reconstruction from 2 images, then training a model to estimate 3D shape from a single image.
- Learning to work with Xbox 360 Kinect Sensor and associates software to establish ground truth

Load Forecasting Bounty

Ashoka University (January 2024 - Present)

- Working on this Load Forecasting ML bounty to do electricity loadforecasting using XGBoost or LSTMs
- Learning to deploy models using RDIP and weather APIs

Basic Hawkeye System

Ashoka University (November 2023 - December 2023)

- Implemented a ball tracking and 3D reconstruction pipeline using YoloV8 and openCV with projective geometry

MCTS in C

Ashoka University (November 2022 - December 2022)

- Implemented Monte Carlo Tree Search, a Reinforcement Learning algorithm, in C to play Mega Tic Tac Toe.

The Merchant of Mareechikoor (Video Game) Ashoka University (November 2023 - December 2023)

- Build a management (like Papers Please) style video game with the Godot Engine, implementing a drag and drop system, did basic 2D animations and interfaced with dialogue manager

President of Eeshto (Board Gaming Society)

Ashoka University, (February 2023 - January 2024)

- Managed a team of 50 across 6 departments
- Won award for outstanding contributions to campus life
- Expanded Eeshto into 3 verticals, introducing a Video Games team and wrote Club Charter, doubling the size of the club
- Oversaw 20 + campus events

School Pupil Leader (/Head Boy /School Captain)

APL Global School, Chennai (2020 - 2021)

- Built a secure server for Primary school students to interact with each other outside of school hours, while allowing teachers to moderate discussion.
- Managed a team of 20 students from grades 6 to 12 who made up the student government

Secretary General

APL Global School, Chennai (2020 - 2021)

- Organised the school's first fully student driven, first online MUN
- Oversaw 100 delegates over 3 committees
- Managed expenses and conducted the first profitable MUN of the school

MISCELLANEOUS

- Trained 4 years in Krav Maga
- 20 MUNs as Delegate, 5 MUNs in Organising Comittee
- Member of College Volleyball A-team (Main Setter)