HRSH VENKET

ASHOKA UNIVERSITY – COMPUTER SCIENCE MAJOR

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EXPERIENCE

Mphasis Lab (Ashoka University)
Research Internship   Sonipat, India (August 10 2023 - Present)
- Working with Professor Meghna Agarwal to build a forest fire detector using SENTINEL data, using wavelet analysis and an RF classifier

(Computer Vision) Modeling intestinal deformations in C.elegans (January 2023 - August 2023)
- I worked with Professor Anup Padhamanaban's Lab and Professor Raghavendra Singha
- 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)

Environmental Foundation of India (EFI)
Intern (Lake Restoration and Water)   Chennai, India (2021)
- Did research on Chennai's water usage during a drought, and did a workshop on reducing freshwater wastage
- Wrote blogposts on 12 lake restoration projects

PROJECTS

Technical Skills C/C++, Python (mainly opencv, pytorch, numpy), Godot, LaTeX, Git, Rust
Project: Basic Hawkeye system (3D ball tracking and reconstruction)   (November 2023)
- Collected ground truth values, used the Yolov8 tracking model in 2D, and used camera calibration to estimate 3D ball position.

Project: Corrected speech to text transcription with huggingface models   (April 2022)
- Corrected speech to text with `wav2vec` and `BERT`

Project: Implemented Monte Carlo Tree Search in C   (December 2022)
- Wrote code for MCTS in C (on Github)
- Learnt basic Monte Carlo Techniques and used Upper Confidence Bounds applied to Trees (UCT1).

EDUCATION

BSc Computer Science second year student (Pursuing)   Ashoka University (2021–Present)
- Honors: Dean's Honours List
- Data Structures A; Probability and Statistics A; Intro to Machine Learning A
- Monsoon 2023 Teaching Assistant for Intro to Machine Learning

A Levels   APL Global School, Chennai (2017–2021)
- A Levels (Physics: A, Mathematics: A, Classical Studies: A, Economics: A)

LEADERSHIP

President of Eeshto (Board Gaming Society)   Ashoka University, (February 2023 - Present)
- Managing a team of 30+ members across 4 departments.

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

- Fluent in English; Conversational Proficiency in Hindi, Tamil, and German
- Trained 4 years in Krav Maga
- 20 MUNs as Delegate, 5 MUNs in Organising Comittee
- Member of College Volleyball A team (Setter)