

Luhar Ayush

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EDUCATION

Charotar University of Science and Technology (CHARUSAT)

B.Tech in Computer Engineering

Changa, India

Oct. 2021 – May 2025

- GPA: 9.04/10.00
- Data Structures & Algorithms, Operating Systems, Design & Analysis of Algorithms, Machine Learning, Artificial Intelligence, Theory of Computation, Python Programming, Software Engineering, Image Processing & Computer Vision.

Unique School of Science

Secondary Education

Nadiad, India

May 2019 – June 2021

- Percentage: 89.6%
- Grade: A2

EXPERIENCE

HyperVect

Machine Learning Intern

Gandhinagar, India

May 2023 - June 2023

- Developed Python tool for data annotation for images, converting pixel data to YOLO-compatible XML.
- Built Chat-GPT wrapper for CSV interactions, optimizing batch processing and reducing query time by 25%.
- Trained a S2S model, automating speech-to-text and PDF generation for Indic language surveys, achieving 92% final accuracy.

CHARUSAT

Research Intern

Changa, India

May 2024 - June 2024

- Extracted and annotated frames from CCTV classroom footage, generating over 2k images in YOLO format.
- Trained attention detection model for live CCTV footage, reaching over 90% accuracy.
- Developed script to generate PDF reports on student attention levels during lectures.

PROJECTS

Emergent Learning Dynamics: Reinforcement Learning in Multi-Agent Hide-and-Seek | *Unity3D, ML-agents, Python*

- Created a methodology using Transfer Learning and Experience Replay to reduce human intervention in model training.
- Used task-specific pretrained models, optimized for each activity, to decrease training time.
- Achieved the door-blocking phase with only 15% lower efficiency compared to OpenAI's implementation.

Printify | *Java, Springboot, React*

- A web application to streamline the printing process, enabling students to print documents from a virtual queue.
- Integrated a payment portal and mail API, employing predictive analysis to estimate document collection times.
- Used WebView to create an app for Android users.

Confab | *Python, Django, HTML, Javascript*

- Developed an anonymous chat platform for secure communication within organizations.
- Implemented an authentication system for official accounts, storing hashed credentials to ensure anonymity.
- Created a filtering system using NLP to remove inappropriate language, achieving 97% efficiency in English.

TECHNICAL SKILLS

Languages: Python, Java

Frameworks: Django, Springboot, Flask

Developer Tools: Git, PyCharm, Jupyter, Kaggle, Google Collab

Libraries: Tensorflow, Pandas, NumPy, Matplotlib

ACHIEVEMENTS

Contributor level on Kaggle

[Link](#)

Google Study Jams

[Google Cloud Platform Public Profile](#)

PUBLICATIONS

- [C.1] Luhar Ayush, et al. (2024). **8th International Conference on Smart Trends in Computing and Communications**. In *Smart Trends in Computing and Communications*, pp 387–404. Springer, Singapore. 02 June 2024, DOI:10.1007/978-981-97-1326-4_32