Ayush Maurya

International Institute of Information Technology (IIIT), Hyderabad ● 2021 – Present

About Me

Proficiently trained in both human sciences and computer science, I possess a unique perspective that enables me to comprehend the far-reaching implications and outcomes of technological advancements.

Contact

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Skills

- Machine Learning, Python, PyTorch
- C/C++, SQL, HTML, CSS, JavaScript
- UI/UX, Wireframing, Prototyping, User Stories
- Research and Analysis, Image Processing
- System Design, Linux

Education

IIIT Hyderabad
B.Tech in Computer Science Engineering (CSE)
M.S. by Research in Computing and Human Sciences
Ongoing   *2021 – present*

Mary Gardiner's Convent School
Class XII, **90.1 percentage**   *2021*

City Montessori School, RDSO
Class X, **94.2 percentage**   *2019*

Relevant Courses

Design and Analysis of Software Systems (SDLC Training)
Trained by experts from Microsoft, Qualcomm   *Dec 2024*
Human Science Lab (HSRC)
Trained in foundational NLP techniques   *Dec 2022*

Publication

The Hindu: Data — The indirect impact of T20s on Test cricket Co-authored article analyzing data trends in cricket formats.

Achievements

- JEE Main Percentile: 96.9
- UGEE Rank: 111 / 40,000+ expected students
- Base Guitarist (2nd place, inter-house cultural competition band), Lawn Tennis Enthusiast

Work Experience

SERC Digital Twin
Led development of a real-time environmental monitoring digital twin using MERN stack and on-campus sensors (temp, humidity, water, air quality). Followed full SDLC over 8 sprints.
Skills: System Design, Teamwork, Javascript, CSS, HTML, SQL.

tafea - System Design
Designed an end-to-end client software system following SDLC. Leveraged LLM to create student-catered features.
Skills: System Design, UI Design, User Research.

Projects

Age Prediction Model
Developed a model to predict age from images using transfer learning (best results) and tested ensemble methods (RF, SVMs).
Skills: Machine Learning, Image Processing, Standard ML.

ML for Local Geoguesser
Created a model to predict location details (latitude, longitude, region, angle) from images using ResNet50 with attention. Achieved 92% region accuracy, low MAE for lat/lon, 60-degree error for angle.
Skills: Python, Machine Learning, PyTorch.

Katha Marketplace
Designed a UI/UX solution for local artisans, using digital storytelling to enhance engagement. Followed agile workflow.
Skills: UI/UX Design, Wireframing, Prototyping, User Stories, User Research.

Campus Mart
UI/UX design of a buy-sell-rent app leveraging human-computer interaction. Unique feature using NFC for exchange and tracking.
Skills: UI/UX, Teamwork, Interaction Design, Wireframing, Prototyping, User Stories.

Hoi Shell
Built a custom shell in C supporting preliminary Linux commands (ls, clr, piping etc.).
Skills: C/C++, Linux, Teamwork.

Highland History Project
Digitized historical reports using OCR and LLMs to fix missing elements, part of a larger project mapping Himalayan trade networks.
Skills: Machine Learning, Teamwork, Image Processing.

HSRC Summer Bootcamp
Trained in computational tools for Human Science. Co-authored *The Hindu* article, analyzed/visualized cricket data using Python.
Skills: Machine Learning, Teamwork, Research and Analysis.