

Dheer Maheshwari

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EDUCATION

Calorx Olive International School

IB Diploma: 41/45 (7/7 in Mathematics AA HL, CS HL, Physics HL)

Ahmedabad, India

June 2023 - May 2025

King's College London

BSc Computer Science

London, United Kingdom

Sep 2025 - June 2028

COURSES

Harvard CS50 and CS50 AI

Harvard University

- Completed and passed assignments in CS50, created a Python automation tool as a final project
- Passed in seven assignments in CS50 AI, made AI for games like tic tac toe, minesweeper, made a page rank algorithm, made an NLP project which answers questions from the information in the corpus
- Learnt how to create an AI and how it can be used in real-life application

Machine Learning Specialization

Stanford University

- Learnt machine learning algorithm, supervised, unsupervised, and reinforcement learning
- Applied the skills to real-life ML problems in the assignments
- Got to know about the mathematical equations behind the scenes which make the algorithms possible

EXPERIENCE

Research Internship at Spartificial | Python, Scikit-learn, XGBoost, Random Forest, SVM Oct 2023 - Dec 2023

- Researched machine learning models for solar flare intensity prediction, and wrote a paper
- Used NASA RHESSI dataset with preprocessing, scaling, and resampling
- Trained and compared ML models such as SVM, Decision Trees, Random Forest, and XGBoost
- Gained experience in data science, model evaluation, and space weather forecasting

PROJECTS

automate50 | Python, NLTK, Spellcheck, Requests

May 2023

- Developed a command-line tool with automation which complete the boring, mundane tasks for the user!
- Created a news summarize, text utilities and file organizer
- Submitted this for Harvard CS50 final project, which got approved
- Learnt skills like active learning and collaboration during this project

Productif | Flutter, Dart, Firebase | Download on Mac App Store

Jan. 2023 – May 2023

- Developed a productivity app specifically for students
- Demonstrated this app in a school exhibition and received overwhelmingly positive responses
- Included features like note-taking, Wikipedia search, calendar and scheduling, to-do list, timer and customisations
- Learnt project management and app designing during this project

The Bland Mirror | Python, Flask, HTML/CSS, JavaScript, Tailwind CSS, Plotly Dash

July 2022 - July 2024

- Developed a blog with admin tools
- Consists of features like filtering, sorting, search, and analytics
- Learnt collaboration and time management with this project

School Connect App | Flutter, Firebase, Dart, Firestore, Firebase Auth

June 2024 - Dec 2024

- Developed a cross-platform app to centralize school communication
- Implemented hierarchical roles for principals, admins, and students with tailored access
- Built features for announcements, tasks, events, and an interactive calendar with real-time updates
- Designed Firestore schemas and user management tools for subjects and grade-specific tasks

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS, Dart, Swift

Skills: Full Stack Web Development, Data Structures and Algorithms, Data Analytics, Machine Learning, Deep Learning (Neural Networks, CNN, ANN, GANs)