

# Malhaar Arora



8920565864 • [malhaar.arora@plaksha.edu.in](mailto:malhaar.arora@plaksha.edu.in)

[in](#) /malhaar-arora • [GitHub](#) /malhaar2002 • [website](#)

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## EDUCATION

- **Plaksha University**, Computer Science & Artificial Intelligence CGPA: 8.50
- **Delhi Public School Gurgaon**, 12<sup>th</sup> — CBSE 93.4 %
- **Delhi Public School Gurgaon**, 10<sup>th</sup> — CBSE 92.3 %

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## EXPERIENCE

**Plaksha Tech Wizards**, Mohali | *SDE Intern* June 23-July 23

- Developed custom Large Language Models using the Python Langchain library for a GPT-based application
- Created a web chatbot interface with React and Flask, and deployed the production-ready application on a Linux cloud server

**Plaksha University**, Mohali | *Teaching Assistant* July 23

- Co-instructed a 5-session Python programming bridge course for 47 incoming postgraduate diploma students
- Covered core Python topics including syntax, control flow, file I/O, functions, classes & objects, popular scientific libraries (NumPy, SciPy, Pandas, Matplotlib) and data structures

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## PROJECTS

**H2knOw** | Runners-up: Plaksha Summer Entrepreneurship Program

- Engineered a shower-head attachment that monitors water usage via a flow-rate sensor and an ESP32 microcontroller
- Elevated the MVP by transitioning from a Django website to a feature-rich mobile app developed with Flutter and Firebase

**PrepAI** | Plaksha University, Machine Learning Project

- Engineered an interview preparation tool that analyzes mock interview videos and provides feedback on key aspects
- Utilized a blend of machine learning and deep learning techniques, incorporating lexical, auditory and facial features

**Therapia** | Plaksha University, Nominated for the SP-Dutt Award for Innovation and Impact

- Developed a Flutter app with Flask REST API to track Parkinson's hand tremors, aiding medication and progress monitoring
- Created a machine learning model that analyzes speech data for diagnosis of Parkinson's disease

**Augmentia** | Plaksha University, ILGC Project

- Built an interactive platform that converts complex electronic schematics into 3D models for better visualization
- Created a Flask website that parses the 2D schematic, creates a 3D model using blender-python and displays it using three.js

**Flavour Leaf** | Plaksha University

- Developed a complete food-ordering platform for our university's food kiosk
- Transitioned the initial prototype from a PHP + MySQL website to a more user-friendly Flutter app with a Firebase backend

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## SKILLS

- **General-Purpose Programming:** Python, MATLAB, C++, Bash Scripting
- **Frontend Development:** HTML, CSS, JavaScript, React.JS, Flutter
- **Backend Development:** Django, Flask, SQL Databases, Firebase

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## ACHIEVEMENTS AND EXTRA-CURRICULARS

- **Founder - RunOutrun:** Founded and operated a print-on-demand shop with a focus on running-themed designs, while managing a dedicated Instagram page to strategically promote the shop and engage the running community.
- **Computer Science Expert - Chegg Inc:** Provided comprehensive academic support and guidance to students as a subject matter expert at Chegg Inc., specializing in computer science
- **Organizer - HackPlaksha:** Organized a 48-hour university hackathon, securing sponsorships, organizing competitive programming and side events, providing technical mentorship, and ensuring seamless execution of the event
- **Director's Gold Medal:** Awarded for consistent and continuous academic excellence from 4<sup>th</sup> grade to 12<sup>th</sup> grade by receiving the scholar badge award each year