

# Mahak Agrawal

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## PROFILE

An ambitious college student studying B.Tech in Computer Science with a passion for solving problems using innovative technology. Proven skills in teamwork, communication, and taking ownership of projects for exceptional results.

## EDUCATION

### Jaipur Engineering College and Research Center

- B.Tech.: Computer Science and Engineering, CGPA: 9.45

November 2022 - Present  
Expected Graduation - 2026

### Rukmani Birla Modern High School

- 93.4 percentage - 12th Standard, 91.6 percentage - 10th Standard

April 2017 - July 2022

## PROJECTS

### Tracking Growth in India [GitHub Repo Link](#)

May 2024

- Built an interface to monitor the growth in India over 10 aspects for over 60+ years through linear regression in order to predict future changes
- Implemented 'pandas' for efficient data handling, processing and analyzing records of 55+ years
- Streamlined data visualisation with 'matplotlib', enhancing reporting accuracy by 35%

### Indic Language Support (Text/Voice/Image) [GitHub Repo Link](#)

January 2024

- Incorporated 'googletrans' for text translation, 'gtts' for text-to-speech conversion, 'speechRecognition' for speech recognition, 'easyocr' for image recognition, and 'tkinter' for GUI implementation
- Devised to support text, voice as well as image translation between 10+ indic regional languages

### Currency Exchange Monitor and Alert Agent [GitHub Repo Link](#)

November 2023

- Developed a user-friendly interface using 'tkinter' library
- Analyzed the real-time exchange rates for 50+ currencies extracted from a 3rd-party Rest API
- Programmed to notify the user when the exchange rate surpasses the user-defined thresholds, using 'uAgent' library

## EXTRA CURRICULAR ACTIVITIES

### JECRC Incubation Centre

January 2023 - August 2023

#### Outreach Lead

- Led a team of 7 to connect and network with over 20 ecosystem enablers and builders in 8 months
- Co-ordinated with 15+ people and directed 30+ volunteers to organize a 3-day entrepreneurial event with 200+ attendees
- Published 3rd edition of the entrepreneurial magazine 'The Magnet' with 5 fellow teammates
- Executed an overnight 12-hour hackathon along with 10 others for 150+ participants

### J.P. Morgan Software Engineering Virtual Experience

April 2024 - May 2024

- Set up a local dev environment by downloading the necessary files, tools and dependencies.
- Repaired 5+ broken files in the repository to ensure the web application functions properly.
- Developed a live data visualization tool using JPMorgan Chase's open-source library Perspective, enabling real-time monitoring for traders; the solution enhanced decision-making speed by 40%

## ACHIEVEMENTS

- Cleared the 1st round of SIH (Smart India Hackathon)
- 5 stars in Python, SQL, C++, Problem Solving, and Java at [Hackerrank](#)
- Shortlisted for the 2nd round of IIT Bombay Hackathon

## CERTIFICATIONS & COURSES

- CS50's Introduction to Artificial Intelligence with Python by HarvardX July 2024
- Docker Essentials by Udemy July 2024
- Essentials of Python by Microsoft May 2023
- Explore ML with Crowdsourcing by Google April 2023

## SKILLS

- Technical Skills:** Python, C/C++, Java, Linux, MySQL, Rest API, Fast API, Data Structure and Algorithm (DSA), Artificial Intelligence/Machine Learning (AI/ML) (Basic), OOP,
- Tools/Platforms:** Git/GitHub, VS Code, Notion, Microsoft Office - Word, Excel, Powerpoint, Docker