

# Mahak Agrawal

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## Profile

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B.Tech Computer Science student specializing in Python development with experience in backend development and API integration. Passionate about developing scalable solutions and enhancing system performance through advanced algorithms.

## Education

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**Jaipur Engineering College and Research Center**  
*Bachelor of Technology in Computer Science (CGPA: 9.0)*

Nov 2022 – May 2026  
*Jaipur, India*

## Experience

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**Open Source Contributor** [link](#)  
*GSSOC'24 Ext*

Oct 2024 - Nov 2024  
*Remote*

- Enhanced features and functionality of multiple projects using Python libraries, leading to a 15% increase in performance
- Updated 10+ documentations, improving onboarding and user engagement by 25%.
- Closed issues and resolved critical bugs, improving project stability and reducing error reports by 10%.

## Projects

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**DDoS Attack Detection and Mitigation** [github repo](#)

Sep 2024 - Oct 2024

- Leveraged advanced detection algorithms to mitigate risks from more than 1,200 simulated DDOS-attacks; achieved a mitigation success rate of 95% improving system integrity
- Processed diverse data and analyzed traffic patterns using advanced ML algorithms, resulting in a 20% increase in threat detection accuracy
- Tools used: LR, KNN, DT, NB, RF, SVM, ML models, Linux, WireShark

**Indic Language Support (Text/Voice/Image)** [github repo](#)

Jan 2024 - Feb 2024

- Created an image recognition solution that bridged linguistic barriers and reduced misinterpretation by 25%
- Devised to support text, voice as well as image translation between 10+ indic regional languages
- Tools used: Python(TensorFlow/PyTorch), REST APIs

## Technologies

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**Programming Languages:** C, C++, Java, Python

**Frameworks and Libraries:** TensorFlow, PyTorch, FastAPI, Flask

**Technologies and Tools:** Git, GitHub, SQL, Linux, Docker, MySQL, Azure

**Core Subjects:** Data Structures and Algorithm, OOPS, Operating Systems, SDLC, DBMS, Networking, NLP, Artificial Intelligence, LLM

## Leadership Roles

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**Outreach Lead**  
*JECRC Incubation Center*

Jan 2023 - Aug 2023  
*Jaipur, India*

- Led a team of 7 to connect and network with over 20 ecosystem enablers and builders
- Co-ordinated with 15+ people and directed 30+ volunteers to organize a 3-day entrepreneurial event with 200+ attendees