Mahak Agrawal

✉ mahakagrawal304@gmail.com   📞 +91 9511563158   in linkedin.com/in/mahak-agrawal-671796245

Profile

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

Education

Jaipur Engineering College and Research Center   Nov 2022 – May 2026
Bachelor of Technology in Computer Science (CGPA: 9.0)   *Jaipur, India*

Experience

Open Source Contributor link   Oct 2024 - Nov 2024
GSSOC'24 Ext   *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 for by 25%.
- Closed issues and resolved critical bugs, improving project stability and reducing error reports by 10%.

Projects

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
- 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

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

Frameworks and Libraries: TensorFlow, PyTorch, FastAPI, Flask

Technologies and Tools: Git, GitHub, SQL, Linux, Docker, Azure, AWS

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

Leadership Roles

Outreach Lead   Jan 2023 - Aug 2023
JECRC Incubation Center   *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