

Deepanshu Arya



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Education

- **Indira Gandhi National Open University (IGNOU)** 2024–26
Pursuing masters program Master of Computer Application CGPA: **7**
- **MIT World Peace University** 2024
Completed Post Graduate Program in Cybersecurity
- **Maharaja Surajmal Institute, Delhi** 2021–24
Completed undergraduate program Bachelor of Computer Application (Hons) in Data Science CGPA: **8.8**

Experience

- **Pre Doctoral Fellow @ IIT Kharagpur** Aug 24 – Present
 - Currently developing **IOT based Monitoring Solution** under Prof. Dr. Vivek Dixit
 - Managing a network of **50–100 sensors** for real-time data collection.
- **Software Development Engineer @ DiceMed** Oct 24 – Present
 - Working as a part-time SDE at **MedTech AI** startup.
 - Developing MedTech solutions from implant planning to oral cancer detection, leveraging CBCT, OPG, and intraoral scans to build explainable, **clinician-friendly diagnostic tools**.
- **Freelance Developer** May 2024 – Present
 - Developed and deployed websites for 3 companies, tailored to their specific business needs, including **Dicemed**([🔗](#)), **Galleon Trading**([🔗](#)), **Infosec Media Solutions**([🔗](#))
 - Worked closely with **5+** clients to ensure on-time delivery & post-deployment support.
- **Software Development Cell ([link](#) [🔗](#))** Jun 23 - Jun 24
 - Core Team Member of college Software Development Cell.
 - Engineered and optimized college software solutions, i.e., **Attendance Management Solution**, **ID Card Generator**, and **Alumni Management Portal**, within a cross-functional team of 4 members. **Agile** methods & version control systems (**Git**) to guarantee effective cooperation & optimize development processes by 25%.
 - Implemented data processing technology, saving academics and staff more than **20+ hrs** a week of manual labor.

Projects






- **MSI-AMS | MySQL, ExpressJS, ReactJS, NodeJS, Flutter ([link](#) [🔗](#))**
 - Created a **two-click** system for marking attendance that enables teachers to take attendance by a **QR code**, switching from a paper and pen approach to a digital one.
 - Developed a **mobile app** that allows students to view their attendance history, securely mark attendance using a **Google login**, all while improving user experience and lowering the risk of human mistake.
- **Web Chat application | MongoDB, ExpressJS, ReactJS, NodeJS ([link](#) [🔗](#))**
 - Offers a platform that makes it possible to communicate in **real-time**, whether for personal use or connecting with friends. Seamlessly transition between one-on-one chats & group conversations within a **user-friendly interface**, enhancing the online communication experience.
 - Strengthened **real-time communication** skills and enhanced proficiency in full-stack development.
- **Id Card Generator | jinja2, html2image, fpdf, Tkinter ([link](#) [🔗](#))**
 - Automated ID card generation for more than **500 first-year college students**, reduced administrative workload by **60%**. The intuitive interface & effective backend processing resulted in a **40% decrease** in the amount of time needed for staff & student onboarding.
 - By implementing automation scripts, **80%** less manual labor was required.
- **Dictate It | Javascript, Tailwind, Web Speech API, JSON ([link](#) [🔗](#))**
 - Created a **Chrome extension** that dictates selected text on webpages, enhanced accessibility and UX.
 - Integrated feature allowing users to configure TTS to pause after a **specific number** of words (e.g., 5 or 10) for a **defined duration** (e.g., 1–10 seconds).

Technical Skills and Interests

Development Stack : [HTML/CSS](#), [Js](#), [C/C++](#), [MicroPython](#), [React.js](#), [Express.js](#), [Node.js](#), [MySQL](#), [MongoDB](#), [Kotlin](#), [JetpackCompose](#)

Developer Tools : [Git](#), [Linux](#), [Vs Code](#), [Android Studio](#), [Postman](#)


Achievements

- Achieved **5th** place in Cyber Security Hackathon "Get Set Hack" by RISE & ThriveDX. ([link](#) )
- Secured **1st** place in **SIH 2023** Hackathon, leading team of 5 to develop "AyuMonk". ([link](#) )
- Recognized by NPTEL as an **NPTEL Believer**()**,Motivated Learner**() and **Enthusiast**() showcasing dedication to continuous learning and upskilling.

Publications & Conferences

- Presented a winning paper at **ICIDSSD 2024, Jamia Hamdard**, awarded Best Presenter & Best Poster. ()

Certifications

- **Completed Google Cloud Certified Programme (GCCP) and Arcade** ([link](#) )
Has AWS practitioner certification from ICT Academy too. ([link](#) )
- **Completed 9 MOOC courses by NPTEL(IIT Madras)**([Courses names are clickable](#) )
Embedded System Design, OS, Ethical Hacking, Blockchain, Soft Computing, Enhancing Soft Skills, Computer Vision, Cyber Security and Privacy, Social Network and Analysis