

# 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* CGPA: **—**
- **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.
  - Helping in developing MedTech solutions from implant planning to oral cancer detection, leveraging CBCT, OPG, and intraoral scans to build explainable, **clinician-friendly diagnostic tools**.
- **Frelance Web 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.
  - Refined skills in **real-time communication** 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**, cutting down on administrative labor 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, improving accessibility & user experience.
  - 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






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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

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- 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

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

## Certifications

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- **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