

Deepanshu Arya



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Education

- Indira Gandhi National Open University (IGNOU)** 2024-26
Pursuing masters program Master of Computer Application CGPA: —
- Maharaja Surajmal Institute, Delhi** 2021-24
Completed undergraduate program Bachelor of Computer Application (Hons) in Data Science CGPA: 8.798
- 12th Class** (offline) 2020
Kala Niketan International School (CBSE), Delhi Percentage: 75%

Experience

- Pre Doctoral Fellowship @ IIT Kharagpur** Aug 24 - Present
 - Currently developing **IOT based Monitoring Solution** under Dr. Vivek Dixit
 - Managing a network of **50-100 sensors** for real-time data collection.
- Frelance Web Developer** May 2024 - Present
 - Developed and deployed websites for 2 companies, tailored to their specific business needs, including **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

Development Stack : HTML/CSS, Js, C/C++, Python, MicroPython, MySQL, MERN, 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