

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. Utilized **Agile** methodologies & version control systems (**Git**) to streamline development processes & ensure efficient collaboration efficiency by 25%.
 - Deployed data processing systems, saving **20+ hrs/week** in manual effort for faculty and staff.

Projects

- MSI-AMS | MySQL, ExpressJS, ReactJS, NodeJS, Flutter ([link 🔗](#))**
 - Developed a **two-click** attendance marking system that allows faculty to take attendance using a **QR code**, transitioning from a pen-and-paper method to a digital platform.
 - Created a **mobile app** enabling secure attendance marking with **Google login**, allowing students to view their attendance history and providing detailed reporting, enhancing user experience and reducing human error.
- Web Chat application | MongoDB, ExpressJS, ReactJS, NodeJS ([link 🔗](#))**
 - Provides a platform enabling **real-time messaging**, 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 over **500 college freshers**, reducing administrative workload by 60%. The intuitive interface & efficient backend processing led to a **40% reduction** in onboarding time for both students and faculty.
 - Implemented automation scripts, reducing manual effort by **80%**.
- Dictate It | Javascript, Tailwind, Web Speech API, JSON ([link 🔗](#))**
 - Developed a **Chrome extension** that dictates selected text on webpages, enhancing 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