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 **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 online communication experience.
  - Refined skills in **real-time communication** and enhancing 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 a 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 name are clickable 🔗)
  Embedded System Design, OS, Ethical Hacking, Blockchain, Soft Computing, Enhancing Soft Skills, Computer Vision, Cyber Security and Privacy, Social Network and Analysis