Arpit Jain (He/Him)

Geospatial Specialist | Web & App Developer | AR/VR Enthusiast

ABOUT ME

I'm Arpit Jain, a Geospatial Specialist with expertise in GIS development and analysis. My background in Civil Engineering and Architecture enables me to design and craft impactful solutions. From 3D architectural visualizations to research protoypes, I merge creativity and precision. Proficient in Unity, ArcGIS, and Python, I excel at transforming complex data into actionable insights. You can visit my portfolio at **ar-arpit.ml** to view my work and connect with me. You can also get in touch with me using following-

Email ID: **arpit66120@gmail.com** │ Phone: **+91(783)680-5636** | LinkedIn: **Arpit Jain**

EDUCATION

- **Master of Technology in Civil Engineering with specialization in Geomatics** 2021-2023
  Indian Institute of Technology, Roorkee, Uttarakhand

- **Bachelor of Architecture** 2014-2020
  School of Planning and Architecture, New Delhi.

WORK EXPERIENCE

- **Designer and Developer (part-time), ALP Studio** (January, 2021 to Present)
  · Founded and managing a successful architectural and design consultancy, delivering comprehensive services. Completed various graphic design, website design, interior design, product design and website development projects apart from architectural projects.

- **Research Collaborator, Design Innovation Center, SPA Delhi** (Aug, 2020 to Jun, 2021)
  · Researched and developed prototype ad a solution to reduce accident possibilities at blind turns through an early accident warning system using Arduino devices, GPS and RF transceiver.
  · Explored the possibilities of Intellectual Property rights by conducting novelty searches and coordinating with the IPR attorney.

- **Android Developer Intern – Design Innovation Center, SPA Delhi** (May, 2019 - July, 2019)
  · Developed an Android application using Android studio to help in architecture conservation providing required information and tutorials for remedies. Developed a Machine Learning model for detecting the intensity of cracks in heritage buildings using the images dataset.
  · Integration of the ML model for real-time usage with TensorFlow. (**Patent granted** to the Institution)

- **Architectural Intern, Visarg Design Studio** (January, 2018 - May, 2018)
  · Designed architectural projects, preparing BOQs, site management and preparation of working drawings.
  · Developed and designed the portfolio website of the firm using WordPress.

PROJECTS

- **3D Architectural Visualization using Augmented Reality (Photogrammetry + GIS+ Research + Unity)**
- **Harit Paryavaran (Entrepreneurship + UX Design + GIS + Development and Project Management)**
- **Lake Area change Detection over time (GIS + Remote Sensing)**
- **Glacier Surface Ice Velocity Estimation (GIS + Remote Sensing + SAR)**
- **Vertical Accuracy assessment of ASTER and SRTM using ICESat-2 dataset (GIS + Remote Sensing)**

Achievements

- AIR 12 GATE 2023, Geomatics Engineering (Paper Code: GE)
- AIR 81 GATE 2020, Architecture and Planning (Paper Code: AR)
- 1st Rank in Ideaz - Civil Engg. by Cognizance, 2022
- 8.0 in Academic IELTS (International English Language Testing System)

SKILLS

Software: Unity, ArcGIS, QGIS, ESA SNAP, ENVI, Erdas Imagine, Adobe Creative Suite- (Illustrator, InDesign, Dreamweaver, Photoshop, XD), Figma, Miro, AutoCAD, SketchUp, Lumion, V-Ray, Wordpress, Rhinoceros 3D,Intelli J, Android Studio, NumPy, Pandas, TensorFlow
Design: UX Design, Architecture, Brand Strategy, Visual Design, Conceptual Sketching, Product & Set Design, Storyboarding, 3D Modeling & Visualizations, AR Modeling, Prototyping, Wireframing
Research: Usability and Accessibility Testing, Design Thinking, Participatory Design, Heuristic Evaluation, Contextual Inquiry- Interviews and Observation
Languages: HTML, CSS, R, Python, C#, SQL

Positions of Responsibility & Extra Curriculars

- **General President | Student Council, SPA, Delhi (September 2016 - February 2017)** (Verification Link)
- **Unit Secretary | NASA, SPA, Delhi (February 2016 - January 2017)**
- **Department Placement Representative | IIT, Roorkee (August 20121 - January 2023)**
- **Unit Designee | NASA, SPA, Delhi (February 2015 - January 2016)**
- **Design Team | Design Innovation Center, SPA, Delhi (April 2019 - August 2019)**

CERTIFICATIONS

- **Evaluating Ecosystem Services with Remote Sensing, ARSET Program - NASA (2022)**
- **Data Analytics with Python - NPTEL (2022)** (Verification Link)
- **Overview of Geoprocessing using Python – IIRS and ISRO (2022)** (Verification Link)
- **Fundamentals of Accelerated Computing with CUDA Python – NVIDIA (2021)** (Verification Link)
- **Fundamentals of Deep Learning - NVIDIA (2021)** (Verification Link)

References

- **Kamal Jain**
  Professor
  Indian Institute of Technology, Roorkee
  kamal.jain@ce.iitr.ac.in
  9760026284

- **Manoj Mathur**
  Dean (Planning and Development)
  School of Planning and Architecture, New Delhi
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