

AYUSH A. JHA

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SUMMARY

Dedicated Bachelor of Civil Engineering with a keen interest in geospatial dynamics, currently pursuing a master's in geomatics. Eager to leverage acquired skills and knowledge in a dynamic environment conducive to personal and professional growth. I seek opportunities to apply expertise in a role fostering collaboration and innovation. I am open to exploring opportunities that align with my skill set and passion for problem-solving and continuous learning.

EXPERIENCE

- National Institute of Urban Affairs (NIUA)* (January 2025 - present)

Job Title: Intern

Gaining competence in urban research, spatial analysis, and data-driven planning while refining skills in GIS, data visualization, and spatial analytics. Analysing the Urban mobility, infrastructure, ecological datasets and dynamics of city-planning. Participating in multiple specialized talks regarding city strength and conservation, even while substantially increasing know-how along with logic skills via GIS, remote sensing data, and city computing.

- GEONOMADS CONSULTING LLP

Job Title: GIS Summer Intern [May 2025 – July 2025]

I gained hands-on experience in creating and managing geospatial data, digitizing features, and performing spatial analysis using MS Excel and QGIS. I also contributed with my skills to developing an open-source geospatial dashboard, leveraging Python and relevant libraries like pandas, geopandas, folium, and folium plugins, JSON, and the leaflet map library with HTML and JavaScript. My role also involved conducting spatial analysis and mapping, which further honed my technical skills. These experiences sharpened my technical skills and provided valuable insights into real-world geospatial solutions.

- Teaching Assistant at CEPT University, Ahmedabad

- Assistant Engineer at M/s. DHARATI Engineers(Site Management, Tenders, BOQs)(June 2022 – June 2023)

As an Assistant Engineer, I managed site operations for tendering, along with BOQ preparation, during government projects under GWIL, GWSSB, WASMO, and NWR. My responsibilities included coordinating several on-site activities. My responsibilities also included ensuring abidance by safety as well as project standards, in addition to supporting procurement through tender reviews and cost estimation. I helped engage people for timely, great project completion.

- CHAVDA INFRA PVT. LTD

Job Title: TRAINEE ENGINEER [4 MONTHS i.e. (13 WEEKS)]

Project: Turquoise Grandeure

Assisting the Project Manager and Site engineers in the execution and planning of the workflow with respect to technical aspects of the project.

EDUCATION

Masters in Geomatics(MTech.) (2023 - 2025) * Currently Pursuing

CEPT University, Ahmedabad | Sem I - G. P. A. – 3.4 / 5.00 | Sem II – G. P. A. – 3.8 | Sem III – 3.4

B. E. in Civil Engineering (2018-2022)

SAL Institute of Technology & Engineering Research| Gujarat Technological University

C. G. P. A. – 8.32 / 10.00

Gujarat Secondary & Higher Secondary Education Board [GSHSEB] – 12th (2018)

The New Tulip International School, Ahmedabad | Percentage – 54.77 %

Central Board of Secondary Education Board [CBSE] – 10th (2016)

The New Tulip International School, Ahmedabad | C. G. P. A. – 8.0 /10.0

SOFTWARE SKILLS

ArcGIS Pro | ArcGIS CityEngine | Google Earth Engine | Google Earth Pro | QGIS | AutoCAD | MS Office | Esa SNAP | Python | PostgreSQL | Agisoft Metashape | GeoServer | SQL | Network Analysis | 3D GIS | Cesium | R code – CRAN Network | HEC-RAS | HEC-HMS

AREA OF INTEREST

- Digital Twin
- Geospatial Programming
- Urban Planning
- Climate Study
- Geospatial Analysis
- Hydrology

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PRIME
ACADEMIC
PROJECTS

EMERGENCY RESPONSE PLANNING FOR FIRE OUTBREAK (2024)

SEM 2 PROJECT

Under Rajkot Smart City, Emergency Response Planning for Fire Outbreak aims to help improve firefighting and emergency services. Response times regarding different locations of fire events studied via the Geographical Information System's network analysis are based on SFAC. The identified areas of serviceability help depict new fire stations toward bridging coverage gaps by allowing the test fire incidence point to analyze the response to be presented. Proposed recommendations incorporated city data for flash alerts within traffic conditions for future planning and corridors for emergencies as required. The activity works to enhance the safety across city skylines, with punctuality and effectiveness of respective responses during emergency situations.

UNRAVELLING IMPERVIOUSNESS OF CITIES: CITYSCAPE EVOLUTION MONITORING (2023)

SEM 1 PROJECT

Addressing the escalating flooding and stormwater challenges in Indian riverside cities, this project aims to illuminate and analyze changes in impervious surfaces. With a focus on riparian cities, the objectives include mapping two decades of Land Use/Land Cover changes and identifying alterations in impervious surfaces. Using the unsupervised form of classification for the satellite images, land use/land cover maps were obtained, and furthermore, change detection was done. Developed parcels, assumed to be impervious surfaces, are mapped to unravel the intricate dynamics of urban expansion, industrialization, and drainage inefficiencies impacting these cities.

Design aspects & process of a Water Treatment Plant with a capacity of 40 MLD (2021)

The main factors and properties to be acknowledged while designing a WTP are the physical, chemical and biological properties of raw water that is to be treated. The capacity of the Water Treatment Plants is usually measured in Millions of Liters in a Day (MLD).

CONFERENCES
ATTENDED

- 1. Empowering National Development Symposium
- 2. Gujarat Youth Parliament, Gandhinagar, 2024
- 3. SAMPARK, IEEE, Ahmedabad, 2024
- 4. International Land Use Symposium (ILUS) 2023, Ahmedabad IN
- 5. Urban Design & Planning, CEPT Conference, 2023
- 6. Transportations Engineering Workshop (SkyFi Labs), 2018

ACADEMIC
ACHIEVEMENTS

- 1. 50% Merit-Based Scholarship for M. Tech.
- 2. IIRS, ISRO - Application of Satellite Altimetry for Inland Waterbodies
- 3. IIRS, ISRO - RS & GIS Applications
- 4. IIRS, ISRO - Basics of Geocomputation and GeoWeb Services
- 5. Coursera - Smart Cities Management
- 6. Coursera - Google – The bits and bytes of Computer Networking

PROFESSIONAL
SKILLS

Communication Skills | Team Management | Leadership | Adaptability | Attention to detail | Public Speaking | Working with Tenders and BOQs

PERSONAL
DETAILS

Date of Birth: 13th August 2000
Languages: English | Hindi | Gujarati | Maithili
Nationality: Indian

DECLARATION

I hereby declare that the above-mentioned details in this resume are true, complete, and correct to the best of my knowledge and belief.

PLACE: Ahmedabad, INDIA

(AYUSH ANIMESH JHA)