KOMAL DOSHI

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•**Portfolio:** https://portfolio.cept.ac.in/student/doshi-komal-nileshkumar-pge24179

SUMMARY

Civil engineer and current Master's student in Geographic Information Systems (GIS) with a strong interest in spatial analysis, mapping, and geospatial technologies. Skilled in applying GIS tools to solve real-world problems in urban planning, environmental studies, and infrastructure projects. Passionate about integrating engineering expertise with geospatial data to deliver accurate, data-driven solutions.

EXPERIENCE

Sabarmati Gas Ltd., Gandhinagar.
Gis Assistant (27 Months; March, 2022 to June, 2024).
Collected and updated pipeline network data in the GIS system, utilizing DGPS equipment for field-based asset capture. Provided geospatial information and data support to management for decision-making and operational needs.

INTERNSHIP

Centre of Applied Geomatics, CRDF, Ahmedabad.
Research Intern (02 Months; June, 2025 to July, 2025).
Conducted 3D solar rooftop potential analysis using geospatial tools during internship at CAG.

EDUCATION

Masters in Geomatics (2024- 2026) ** Currently Pursuing*
CEPT University | SEM I G. P. A. – 3.2 / 5.00 | SEM II G. P. A – 3.9 / 5.00 | SEM III G. P. A – 3.8 / 5.00

Bachelor of Civil Engineering (2017-2021)
Silver Oak College| Gujarat Technological University I C. G. P. A. – 8.77 / 10.00

Board – 12th (2017)
Sheth C.M High School | Percentage – 73.85%

Board – 10th (2015)
Shree J.M Chaudhary School | Percentage –83.3 %

SOFTWARE SKILLS

ArcGIS Pro, Q-GIS, Google Earth, Google Earth Engine, SNAP, AutoCAD, Power-BI, Microsoft Office
Basic of Python, HTML, CSS, Java Script, Postgres SQL, AI-ML

AREA OF INTEREST

Geographic Information Systems (GIS), spatial data analytics, urban development and sustainable planning, geospatial modelling, geo-spatial Research, remote sensing

PRIME ACADEMIC PROJECTS

1. Land Use/Land Cover Changes and Impact on Air Quality

This study analysed LULC changes in Durgapur (2018–2023) using satellite data, revealing urbanization-driven increases in NO_2, SO_2, and CO, with winter showing peak pollution levels.

2. Urban Heat Island Prediction Using Geospatial Technology

This study predicts Urban Heat Island (UHI) intensity in Pune for the years 2025–2026 using time-series modelling. Key indicators such as LST, NDVI, NDBI, and NDWI were used for analysis**.**

3. Urban Green Views: A Floor-Level 3D Approach

Developed a 3D urban model to analyse visibility of green spaces from different building floors in Science City, Ahmedabad, using drone imagery and spatial analysis to evaluate urban environmental quality.

4. A Process Oriented Study of an ICCC-Oriented Digital Twin System

Developed an open-source ICCC Digital Twin dashboard for Melbourne CBD integrating real-time IoT, CCTV, AI insights, and 3D simulation using CesiumJS and Leaflet.js.

CONFERENCES ATTENDED

1. Global South Academic Conclave 2025
2. Symposium- Empowering National Development: Earth Observation Intelligence 2024
3. Geospatial Technologies for Infrastructure 2024

ACADEMIC ACHIEVEMENTS

1. 2nd Place – Student Presentation, World Ozone Day 2025 (CEE–GPCB–ISHRAE, Ahmedabad); Topic: Urban Heat Island (UHI) Modeling
2. Completed NPTEL Online Certification in 'Advanced Geomatics Engineering'
3. Presented "Persuading Labour Efficiency on Construction Sites" at ERIC 2021, International Conference

PROFESSIONAL SKILLS

Self-initiative, Problem Solving Ability, Analytical Ability, Good Adaptability, Team Collaboration & Coordination, Time Management & Organization

PERSONAL DETAILS

Date of Birth: 25th November 1999
Languages: English | Hindi | Gujarati
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, Gujarat (Komal Doshi)

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