

Sandesh Satish Suryawanshi

Sector 12,Kamothe,Panvel,Navi Mumbai.

Navi Mumbai,410209

7695077315

Sandeshsuryawanshi0605@gmail.com

Professional Summary

Dedicated and detail-oriented GIS and Auto-CAD professional with 4 years of experience in spatial data analysis, mapping, and drafting. Adept at utilizing GIS software, Auto-CAD, and related tools to deliver high-quality maps, drawings, and spatial solutions. Skilled in data management, topographic mapping, and urban planning. Proven ability to collaborate with multidisciplinary teams and meet project deadlines.

Key Skills

- **Geographic Information Systems (GIS)**
 - **AutoCAD**
 - **Spatial Data Analysis**
 - **Cartography and Mapping**
 - **3D Modeling**
 - **Topographic Mapping**
 - **Data Collection and Management**
 - **Urban Planning and Design**
 - **Remote Sensing**
 - **Geo-spatial Data Visualization**
 - **Surveying**
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Professional Experience

GIS Technician

Aeconce, Dehradun, Uttrakhand

June 2022 – December 2022

- Supported the GIS team in data collection, map production, and spatial analysis for various projects, including environmental impact studies and infrastructure planning.
- Utilized Auto-CAD to create detailed engineering drawings and maps for land development projects.
- Maintained and updated Geo-spatial databases with new data from surveys and remote sensing sources.

- Assisted with data visualization and provided mapping support for urban and rural planning projects.

GIS Analyst / CAD Technician

Genesys International Corp Ltd , Mumbai, Maharashtra.

December 2022 - April 2024

Dharavi Redevelopment Project (DRPPL)

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- Identifying Affected Areas: A basemap helps in mapping out the locations that require rehabilitation, such as disaster-affected regions, or areas undergoing redevelopment due to displacement.
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- Land Use Planning: Basemaps can provide insights into the land use patterns, infrastructure, and natural resources in the region, allowing planners to design rehabilitation efforts in harmony with the existing environment

Earthyard Gis Info-tech LLP Pune, Maharashtra

April 2024 – January 2025

Business Devlopment Manager

- Drone Survey Implementation: The project in Maharashtra, as elsewhere, involved large-scale deployment of drones to capture high-resolution images of rural areas. These images were then used to create digital maps of villages.
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- Land Record Updates: The Swamitva project enables residents to obtain property cards or "ownership" cards, certifying their right to land. In Maharashtra, this effort was pivotal in modernizing land records, which were often outdated or lacked formal documentation in many regions.
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- Collaboration with Local Governance: In Maharashtra, collaboration between state governments and local panchayats was critical. The project needed inputs from local bodies to correctly identify and map properties and boundaries.
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- Dispute Resolution: By clarifying property boundaries, the project helped reduce land disputes, a common issue in rural Maharashtra. The introduction of digital land records provided transparency and reduced conflict over ownership.
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- Training and Awareness Programs: Many officials and villagers were given training regarding the process, the benefits of the Swamitva project, and how to use the digital tools to access their records.
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- Challenges in Implementation: In Maharashtra, challenges included managing disputes over incorrect boundaries, the technical know-how

for drone operations, and working in hilly or densely forested areas where surveying was difficult.

- 1. Client Acquisition and Relationship Management
 - Identifying potential clients in target industries.
 - Building and maintaining strong relationships with clients, understanding their needs, and offering tailored solutions.
 - Negotiating contracts and closing deals.
- 2. Strategic Planning
 - Developing and implementing business development strategies to achieve growth targets.
 - Conducting market research to identify trends, opportunities, and competition.
 - Collaborating with other departments to align business goals with operational capacity.
- 3. Proposal Development and Presentation
 - Preparing proposals and presentations to showcase the company's strengths and solutions.
 - Communicating value propositions effectively to clients and stakeholders.
- 4. Networking and Collaboration
 - Attending industry events, conferences, and seminars to network and promote the company.
 - Collaborating with internal teams such as marketing, operations, and product development to ensure client needs are met.
- 5. Performance Metrics
 - Monitoring sales pipelines, leads, and revenue targets.
 - Analyzing performance data to refine strategies and improve outcomes.
- 6. Experience in GIS/Survey Industry (specific to your field)
 - Developing business in GIS and Survey services by leveraging technical knowledge.
 - Building partnerships with organizations needing spatial analysis, mapping, or surveying.
 - Demonstrating project ROI and benefits to clients in these sectors.
- Geospatial Data Integration: A basemap can serve as a base layer to integrate various datasets (topography, vegetation, demographics) to assess the needs of the region and prioritize actions.
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- Monitoring and Evaluation: During and after rehabilitation, basemaps can be updated to track progress, evaluate the success of the interventions, and guide any further actions.
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- Stakeholder Communication: Visual basemaps help in clear communication with stakeholders, including local communities, governments, and NGOs, ensuring that everyone has a shared

understanding of the project.

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- Google Street View Project
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- Data Collection:
 - Mapping Vehicle: The primary method is using a specialized vehicle equipped with cameras, GPS, LIDAR, and other sensors. These vehicles capture 360-degree images of streets, landmarks, and neighborhoods while driving around designated routes.
 - On-Foot or Portable Devices: In areas where vehicles can't reach (such as pedestrian zones, hiking trails, or indoor environments), portable devices like backpacks with mounted cameras (Street View Trekker) are used.
 - Coordination with Local Authorities: Before conducting data collection, permissions often need to be coordinated with local government or authorities to ensure there are no privacy or security concerns.
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- Equipment Operation:
 - Camera Setup and Calibration: Involves setting up the camera systems, ensuring they are properly mounted and calibrated for 360-degree image capture.
 - Regular Equipment Maintenance: During long fieldwork, the equipment often requires checks for wear and tear, battery replacements, and ensuring data storage capacity.
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- Data Management:
 - Data Transfer and Storage: After capturing imagery, data is transferred from the cameras to storage devices. Ensuring data integrity and backups are important in this stage.
 - Geo-Tagging: Collected images are tagged with GPS coordinates to accurately map the location of the images.
 - Privacy and Blurring: Special care is taken to ensure that faces, license plates, and other personal identifiable information are blurred for privacy reasons.
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- Challenges in the Field:
 - Weather Conditions: Capturing clear imagery can be affected by adverse weather conditions such as rain, fog, or extreme sunlight.
 - Road Accessibility: Some areas may have poor road conditions or traffic restrictions, requiring flexibility in collection routes.
 - Safety Considerations: Working in unfamiliar or busy locations can pose safety risks, so awareness of surroundings is crucial.

- Post-Collection Processing:
- Image Stitching and Processing: Once the images are collected, software is used to stitch the images into a seamless 360-degree view.
- Quality Assurance: Ensuring that the captured data meets the required quality standards, which may involve re-visiting certain locations if necessary.
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Education

- Bachelor of Business Administration DY Patil University 2023
- Diploma in GIS 2020
- Full Stack Development 2023

Certifications

- AutoCAD Certification – Autodesk
- GIS Certification – ITT
- Remote Sensing Fundamentals – GEOCOST GIS TRAINING INSTITUTE ,PUNE
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- - Technical Proficiencies
 - GIS Software: ArcGIS, QGIS, MapInfo
 - CAD Software: AutoCAD, Civil 3D
 - Programming Languages: Python, SQL (for GIS data manipulation)
 - Remote Sensing Tools: ENVI, ERDAS Imagine
 - GPS and Surveying Equipment
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Projects

- Smart City
- Urban Planning GIS Model
- Property Survey
- Developed a GIS-based model to support a city's urban planning strategy by analyzing population growth, land use, and transportation patterns.
- Town planning Mumbai
- Dharavi Redevelopment Project (DRPPL)
- Pune Irrigation

Geospatial Data Integration: A basemap can serve as a base layer to integrate various datasets (topography, vegetation, demographics) to assess the needs of the region and prioritize actions

- Topographic Mapping for Infrastructure Development
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- Created detailed topographic maps and 3D terrain models using AutoCAD Civil 3D to aid in road and bridge design.
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 - Languages
 - English: Good
 - Other Marathi: Good
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