

# JYOTI

GIS Specialist

🏠 Open to Relocation    ✉️ [jyoti9412@gmail.com](mailto:jyoti9412@gmail.com)    [🌐 LinkedIn](#)    [📁 Portfolio](#)

## Professional Summary

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Result-oriented **GIS Specialist** with over 6 years of experience in **spatial data management, automated data pipelines, and technical QA/QC**. Proven track record in ensuring **compliance with GIS standards** and delivering high-accuracy maps and reports for large-scale urban projects. Expert in **ArcGIS Pro, Google Earth Engine, QGIS, and Python** to streamline operational workflows and maintain data integrity.

## Education

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### National Institute of Technology

*Master of Technology in Remote Sensing and GIS*

2018 – 2020

*Surathkal, Karnataka, India*

### Institute of Engineering Technology

*Bachelor of Technology in Civil Engineering*

2014 – 2018

*Lucknow, Uttar Pradesh, India*

## Technical Skills

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**GIS & Spatial Tools:** ArcGIS Pro, QGIS, Spatial Database Management, Remote Sensing, SNAP.  
**Data Governance:** Data Validation, QA/QC, Spatial Integrity Checks, Technical Standards Compliance.  
**Programming:** Python (Pandas, NumPy), SQL, Google Earth Engine (GEE), Automated Workflows.  
**Core Competencies:** Map Production, Reporting, Asset Mapping, Systems Integration, Network Analysis.

## Professional Experience

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### World Resources Institute, India

*Program Associate/ Senior Program Associate*

August 2020 – Present

*Bengaluru/ Delhi, India*

- **GIS Standards & Compliance:** Spearheaded technical alignment for geospatial initiatives, ensuring all spatial data outputs across **5+ major state-level projects** met approved technical standards and methodologies.
- **Technical Visualization & Reporting:** Leveraged **advanced cartography in QGIS and ArcGIS Pro** to produce high-precision thematic maps and technical reports, translating complex datasets into actionable insights for **statutory climate policy frameworks of 6 cities** in India.
- **Data Validation & Integrity:** Conducted rigorous **quality checks and data validation** for large-scale datasets, maintaining the integrity of GIS outputs for government stakeholders including NITI Aayog.
- **Automated Systems:** Developed and automated geospatial workflows using **Python and GEE**, significantly increasing efficiency in GIS data retrieval and time-series analysis.
- **Stakeholder Project Leadership:** Directed the implementation of multi-stage methodologies for urban sustainability initiatives, supervising junior associates and interns to ensure **project delivery within approved GIS methodologies**.

### X, Alphabet (part-time)

*GIS Analyst*

July 2021 – March 2025

*Contract*

- **Spatial Data Management:** Monitored and managed global spatial datasets, ensuring **accuracy and adherence** to established GIS methodologies.
- **System Integration:** Supported the **integration of GIS data** with internal operational systems to identify optimal site locations globally.
- **Advanced Analytics:** Leveraged remote sensing to produce **high-precision geographic insights**, reducing turnaround time for project requirements.

### International Center for Agricultural Research in Dry Areas (part-time)

*Climate Analytics Consultant*

March 2021 – June 2021

*Contract*

- **Decision-Support Tools:** Developed a custom Earth Engine application for the seamless visualization and export of high-volume CMIP5 NEX-GDDP projections, enabling long-term environmental mitigation strategies in arid regions.

### World Resources Institute, India

*Consultant*

August 2020 – August 2021

*Remote*

- **Geospatial analysis:** Provided essential geospatial and remote sensing support across multiple projects, contributing to spatial data analysis, map production, and environmental research initiatives.

- **Technical Support:** Collaborated on frameworks for semi-automated asset extraction, improving **spatial data accuracy and operational efficiency by 30%**.
- **System Optimization:** Built internal tools to streamline data queries, supporting the **proper use of GIS software** across the technical team.

## **Licenses and Certifications**

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- Certificate of Completion for PyQGIS Masterclass – SpatialThoughts
- Certificate of Completion for Advanced QGIS – SpatialThoughts
- Certificate of Appreciation for Best Thesis Awards (Kerala Chapter) 2020 – IEEE-GRSS
- Health GIS: Geoinformatics for COVID-19 – IIRS
- Machine Learning with TensorFlow on Google Cloud Platform Specialization – Coursera
- TensorFlow in Practice Specialization – Coursera
- SAR for Landcover Applications – NASA
- SAR for Disasters and Hydrological Applications – NASA