UDIT ASOPA

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PROFESSIONAL SUMMARY

Data and Geospatial Analyst with a strong foundation in quantitative analysis, environmental monitoring, and spatial data science. Skilled in transforming complex datasets into actionable insights using Python, SQL, Power BI, and GIS platforms. Experienced across diverse domains including remote sensing, disaster impact assessment, and R&D. Known for problem-solving, stakeholder collaboration, and rapid adaptation in high-paced and cross-functional teams. Eager to bring analytical expertise and a solution-driven mindset to strategy consulting and business impact roles.

WORK EXPERIENCE

Data Analyst / Remote Sensing Engineer (official title: SAR Remote Sensing Engineer) *@ ICEYE Oy, Espoo Finland* **Dec 2021 – Present**

- Led end-to-end analysis and interpretation of SAR imagery and remote sensing data to detect changes and support environmental disaster assessments
- Collaborated with engineering, product, and operations teams to translate complex geospatial datasets into meaningful operational insights
- Developed and maintained automated data pipelines using Python, streamlining workflows and significantly reducing manual processing time
- Applied advanced statistical and spatial modeling techniques to refine detection algorithms and support environmental monitoring with higher accuracy
- Created reports and intuitive visualizations using Power BI, QGIS, and ArcGIS to communicate insights to both technical and non-technical stakeholders

Freelance Geospatial Data Analyst *@ Self Employed, Delft Netherlands* **April 2021 – November 2021**

- Designed interactive dashboards and Earth Engine-based tools to provide real-time visualization of climate trends and disaster metrics
- Performed KPI tracking and spatial modeling on urban expansion and forest change, aiding planning and sustainability decisions

Remote Sensing & GIS Researcher *@ Delft University of Technology, Delft Netherlands* **April 2020 – March 2021**

- Created scalable cloud-based workflows using Python and Bash for high-volume time-series satellite data processing and analysis
- Authored comprehensive documentation and delivered training sessions for team, enhancing reproducibility and collaboration in ongoing projects

Junior Remote Sensing & GIS Research Fellow *@ Indian Institute of Technology, Mumbai, India* **Sept 2019 – February 2020**

- Processed SAR data for glaciology research and conducted supervised classification for change mapping
- Coordinated logistics and data acquisition for a high-altitude snow survey campaign in the Himalayas

EDUCATION

Master of Engineering (M. Eng.) in (Remote Sensing and GIS)
Indian Institute of Remote Sensing, Dehradun, India, Aug 2017 – Jul 2019
Published peer-reviewed research in international journals and conferences

Post-Graduation Diploma (PGD) in (Embedded System & Informatics)
Centre for Development of Advanced Computing, India, Aug 2016 – Jan 2017
Specialization in IoT, Geo-Informatics, and Health Informatics

Bachelor of Engineering (B. Eng.) in (Electronics Engineering)
Rajasthan Technical University, India, Aug 2011 – Aug 2016
Focus on Embedded Systems, IoT Applications, and Electronic Circuit Design

SCIENTIFIC COMNTRIBUTION

- AGU fall meeting (2020) agu.confex.com/agu/fm20/Paper/754443
- Advances in Space Research (2021) doi.org/10.1016/j.asr.2021.02.023
- Songklanakarin Journal of Science and Technology (2022) doi.org/10.14456/sjst-psu.2022.135
- Earth and Space Science (2020) doi.org/10.1029/2020EA001230
- UASG, India (2019) doi.org/10.1007/978-3-030-37393-1_28
- 2nd IECG, MDPI (2019) doi.org/10.3390/IECG2019-06230
- ISPRS, India (2018) doi.org/10.5194/isprs-annals-IV-5-245-2018

PROFESSIONAL SKILLS

Analytical thinking & structured problem-solving, Cross-functional collaboration & team coordination, Process improvement & automation mindset, Effective communicator across technical and non-technical teams, Fast learner, curiosity-driven, and detail-oriented

TECHNICAL SKILLS

Programming & Analysis: Power BI (Intermediate), SQL (Intermediate), Python (Advanced – pandas, numpy, matplotlib), DAX & M (Beginner), R (Beginner)
Visualization & Reporting: Power BI, Seaborn, Matplotlib, Dashboards, KPI Development
Cloud & Platforms: AWS (Beginner), Google Earth Engine (Intermediate), Databricks (Familiarity)
Statistical & ML: Basic Regression/Classification Models, Hypothesis Testing, Time-Series Analysis (Intermediate)
Tools & Others: QGIS, ArcGIS, Git, Excel, MS PowerPoint, Jira, Confluence

SOFT SKILLS

Stakeholder communication and engagement, Collaborative mindset in cross-disciplinary teams, Fast turnaround on problem-solving, Clear documentation and reporting, Adaptive in multicultural environments