Satya Pradeep Kodeboina

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SUMMARY

GIS Analyst with **7+ years of experience** in geospatial analysis, ArcGIS mapping development, and public-sector support. Specialized in **ArcGIS Pro/Online, ModelBuilder, Python (ArcPy), and SAS** for advanced spatial modeling, cluster/outlier analysis, catchment area studies, and healthcare/census capacity mapping. Skilled at **ArcGIS–Tableau integration, Network Analyst routing/time-distance analysis,** and **QA/QC validation of geospatial outputs**. Adept at **training analysts in ArcGIS workflows**, documenting processes, and delivering interactive geospatial dashboards to support healthcare, managed care, and infrastructure planning.

SKILLS & CERTIFICATIONS

GIS & Geospatial Tools: ArcGIS Pro, ArcGIS Desktop/Online, ArcMap, ModelBuilder, Network Analyst, Web AppBuilder, QGIS
Spatial Analysis: LISA cluster/outlier analysis, catchment area analysis, census tract/block geospatial analysis, route/time-distance calculations
Programming & Analytics: Python (ArcPy, Pandas, NumPy), SAS, R, SQL, Excel (advanced)
Visualisation & BI: Tableau (ArcGIS–Tableau integration), Power BI, geospatial dashboards
Data Management: Relational databases, metadata standards, QA/QC checks, SOP development
Soft Skills: Training/mentoring analysts, cross-functional collaboration, STAR-based communication, problem-solving
Certifications: Tableau Desktop Data Analyst, Microsoft Power BI, AutoCAD, SolidWorks, Amazon Web Services (AWS) for Data Analytics.

WORK EXPERIENCE

GIS Data Analyst | Nationwide | Columbus, OH   **Jul 2023 – Sept 2025**

- Partnered with healthcare and claims teams to address census tract–level mapping needs for behavioral health capacity. Designed geospatial datasets in **ArcGIS Pro and Online**, ensuring accurate coverage models, enabling data-driven resource allocation and improved access planning.
- Tasked with validating service access, applied **ArcGIS Network Analysis** to calculate optimized **travel times and route distances**. Automated routing scripts in **ArcPy** to minimize manual work, improving validation accuracy by 35% and supporting Managed Care program compliance.
- Collaborated with Engineers to integrate **ArcGIS shapefiles** with **Tableau dashboards**, creating interactive **geospatial visualizations**. Delivered training to stakeholders on interpreting maps, improving transparency, reducing reporting turnaround by 40%.
- Automated batch **geoprocessing** workflows using **ArcPy** and **ModelBuilder** in **ArcGIS Pro** to perform topology validation, schema checks, and spatial data **QA/QC**, reducing manual data correction workload by 40%.
- Authored **SOPs, metadata documentation**, and internal training wikis to standardize geospatial workflows. Facilitated workshops to upskill junior analysts in ArcGIS tools, routing models, and Tableau integration, raising team performance and reducing dependency on technical staff.

Senior GIS Data Analyst | Amazon | India   **Dec 2019 – Jul 2021**

- Created and maintained spatial databases in **Microsoft SQL Server**; migrated and digitized roadway and zoning data into **ArcGIS Desktop** and **ArcMap** environments, improving data quality and reducing manual editing time by 30%.
- Partnered with **logistics** and **transportation stakeholders** to ensure alignment of **GIS roadway** data with delivery routes, zoning regulations, and disaster-prone geographies; contributed to **GIS-driven risk mitigation** and infrastructure planning.
- Designed and published interactive **WebMaps** and dashboards in **ArcGIS Online** for visualizing route anomalies and SLA performance, using Web AppBuilder and Experience Builder to streamline stakeholder access.
- Applied **Linear Referencing System (LRS)** techniques to map complaint density and align service issues with delivery paths; supported GIS-driven zoning policy changes and helped reduce customer complaint resolution time by 15%.
- Built automated **QA/QC pipelines** for digitized spatial datasets using **ArcPy** and **Python**; enforced topology rules and schema integrity for **GIS layers** in **ArcGIS Desktop** and **Online**, aligned with state compliance standards.
- Queried spatial datasets using **SQL** window functions and performed advanced calculations in **Excel** (**VBA**) to identify inefficiencies; visualized **KPIs** like fuel efficiency and delivery accuracy in **Power BI**, leading to $80K in annual cost savings.
- Automated data ingestion and synchronization workflows between **Esri ArcGIS** and **AWS S3** using **Python** (boto3, osgeo); reduced **GIS data** retrieval latency by 20% and improved reliability for downstream analytics applications.
- Conducted **root cause analysis** of delivery delays and outlier routes using geospatial joins and clustering techniques in **Python** and **ArcGIS**, supporting operational decision-making and **routing optimization**.

GIS Data Analyst | Amazon | India   **Nov 2017 – Nov 2019**

- Consolidated and cleaned customer operations and **GIS line data** using **SQL** and **Python**, performed **EDA** to improve completeness of roadway segment datasets, applying validation rules in Informatica and Collibra to support accurate feature layer editing in **ArcGIS**.
- Integrated route alignment checks using **ArcGIS** and **OSM** basemaps, reducing inconsistencies, scan errors and man-hours by 20%.
- Linked 400+ customer-reported, location-tagged issues to delivery routes using AWS to inform GIS-driven customer service zone improvements.
- Performed **Linear Referencing System (LRS)** based mapping of complaint density along delivery lines, which reduced average response time by 15% and informed customer service zoning strategies.

Data Analyst | Orange Leaf | India   **Jul 2016 – Oct 2017**

- Collaborated with marketing teams to analyze **email** and **social media campaign** performance, using **SQL** and **SAS** to identify conversion patterns and optimize segmentation strategies, contributing to a 15% boost in engagement and lead generation.
- Utilized social media analytics tools **Hootsuite and Buffer** to monitor and report campaign performance, comparing insights like skip rate and completion rate, using strategic marketing to understand suitable length of ads improving engagement rates by 26%.

EDUCATION

Master of Science, **Data Analytics**   **Sep 2021 - May 2023**
Northeastern University, Boston, MA, **GPA: 3.8/4**
Courses: Probability and Statistics, Predictive Analytics, Database Management systems, Data Mining applications, Machine Learning, Visualizations
Bachelor of Technology, **Computer Science**   **Jul 2012 - May 2016**
Vignan University, Guntur, India, **GPA: 3.5/4**