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## Geospatial Data Analyst

Torchlight AI

Remote

\$120,000 - \$150,000 a year - Full-time

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### Profile insights

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#### Skills

Do you have experience in **Spark**?

**Yes**

**No**

#### Education

Do you have a **Master's degree**?

**Yes**

**No**

### Job details

Here's how the job details align with your [profile](#).

#### Pay

\$120,000 - \$150,000 a year

#### Job type

Full-time

#### Shift and schedule

8 hour shift

Monday to Friday

### Location

 Remote

### Benefits

Pulled from the full job description

- 401(k)
- Dental insurance
- Flexible schedule
- Health insurance
- Paid time off
- Tuition reimbursement
- Vision insurance

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## Full job description

Torchlight AI, a leading cloud-first, data-driven predictive analytics company, seeks an experienced Geospatial Data Scientist. The ideal candidate will possess a deep understanding of geospatial data and its applications, combined with advanced expertise in Google Cloud Platform (GCP), Python, and SQL. This role involves analyzing vast amounts of raw mobile device and web-based data to uncover patterns in human behavior, contributing to behavior-based intelligence—a cornerstone of Torchlight AI's offerings.

The successful candidate will be a technical authority on geospatial data, responsible for guiding complex projects through the entire lifecycle—from data collection to visualization. This includes leading solution development, collaborating with product owners, data/software engineers, and ensuring high-quality delivery to clients.

Key responsibilities include querying, assessing, integrating, and analyzing mobile device & webflow data across geospatial, research databases, and other OSINT sources with a focus on application engineering development, data reformatting, conversion, and behavioral interpretation. The role demands a proactive approach to managing and organizing large volumes of data, ensuring quality control, and participating in a team dedicated to the collection, processing, and delivery of geospatial data.

Preference will be given to candidates with a background in intelligence (OSINT, GEOINT), military experience, or behavioral pattern profiling, who are passionate about leveraging their skills in a dynamic and innovative environment to address complex geospatial challenges and contribute to national security and threat assessment projects.

This role will be within the Data Science team and directly report to the Director of Data Science and MLops. Also interested in potential candidates with NLP & LLM emerging technologies.

### Responsibilities:

- Quickly identify, orient, and familiarize yourself with Torchlight AI's data sources, processes, and systems providing recommendations for improvement and optimizing data operations
- Work with the Director of Data Science to maintain and grow a supportive culture of experimentation, data-driven decisions & rapid iteration
- Working with large geospatial data sets using distributed computing frameworks
- Analyze large amounts of information to discover trends and patterns. Integrate a variety of data sources (e.g., retail point-of-sale, shipments, financial, consumer, geospatial) to proactively evaluate and identify consumer marketing business opportunities
- Working cross-functionally to identify business opportunities for geospatial data science, exploring new data sources for enrichment, collecting appropriate labels for learning, establishing actionable metrics, and creating reusable model validations and risk mitigation
- On-going development & support of our Data Quality Monitoring (DQM) system to ensure data accuracy, completeness, and integrity
- Establishing and following data science best practices, including peer review, code review, documentation,

coding standards, and ensuring reproducibility and compliance

- Put the customer & non-technical user first, propose solutions and strategies to business challenges & challenge the status quo
- Collaborate with the Engineering team to incorporate proven data processing into production, analysis, and modeling approaches by providing detailed technical specifications
- Collaborate with the Product Innovation team to explore new ideas, features, and user experiences
- Document and share workflows with the Torchlight AI team to facilitate the adaptation of the product to meet the needs of the customer
- Provide user feedback to the engineering and product team, with communications back to the leadership team

## Qualifications

- Extensive knowledge about geospatial data sources both in public and private domains such as US census data, weather data, parcel data, POI, etc
- Ability to process, analyze, and visualize large amounts of geospatial data using Spark, Python, SQL, Jupyter Notebooks, etc.
- Experience with GCP including Cloud Storage, Pub/Sub, Dataflow (Apache Beam), Cloud Composer (Apache Airflow), BigQuery (Columnar Database), BigQueryML, VertexAI, VertexAI Workbench, DataPlex (Data Catalog) & Cloud Monitoring. Strong understanding of cloud-based data analytical pipelines (from Ingestion to End-Use)
- End-to-end experience with geospatial or time-series analysis, pattern-of-life behavior modeling, movement pattern or trajectory analysis, clustering & prediction machine learning models, exploratory data analysis, real-time data quality monitoring, and big data visualization
- Familiarity with popular mobility-based Python libraries: *scikit-mobility*, *movingpandas*, *geopandas*, *PTRAIL*, *transbigdata*, *kepler.gl*, *pymove*, *trackintel*, *point2hex*, *H3* etc.
- Independently motivated, curious team player who thrives in the ambiguity of real-world data. Desire to fail fast, learn quickly, and iterate through conclusions and recommendations
- Ability to minimize ego, care about the team & do the right thing to achieve objectives
- Graduate-level degree or comparable professional experience in data science, statistics, machine learning, or a related field
- 4+ years of experience in a data-related role
- 4+ years of experience in a technical, cloud-based data science environment

## Why Torchlight AI?

At Torchlight AI, we're passionate about creating technology solutions that empower people and organizations to achieve their goals. We believe that technology should be used for good, and we're committed to making a positive impact on the world. As a team member, you'll be able to work with talented and innovative people who share your values and passion for excellence.

If you're looking for a challenging and rewarding opportunity to make a difference, Torchlight AI is the place for you. Apply today and join our team of innovators!

Job Type: Full-time

Pay: \$120,000.00 - \$150,000.00 per year

Benefits:

- 401(k)
- Dental insurance
- Flexible schedule
- Health insurance
- Paid time off

- Tuition reimbursement
- Vision insurance

**Schedule:**

- 8 hour shift
- Monday to Friday

**Education:**

- Master's (Required)

**Experience:**

- Data science: 4 years (Required)

**Work Location: Remote**

If you require alternative methods of application or screening, you must approach the employer directly to request this as Indeed is not responsible for the employer's application process.

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