GeoCraft: Mapping the Future

One-day workshop by

TPL mAps

ASHREI TECH | NASTP

19th September 2024

LEARNING OUTCOMES

Equip Tech professionals with the skills to effectively utilize GIS and mapping technologies for strategic decision-making, optimize operational processes, and drive data-driven insights to enhance business performance and efficiency

COURSE OBJECTIVE

Gain expertise in GIS fundamentals and advanced mapping tools to solve real-world challenges and stay ahead with emerging geospatial technologies.

WHO SHOULD ATTEND

Tech professionals in Pakistan, including those in urban planning, environmental management, logistics, and data analysis—anyone seeking to leverage geospatial technology for strategic decision-making and operational efficiency

COURSE CONTENTS

1. **Fundamentals of GIS?**
   - GIS definition and its applications
   - Data types (Raster & Vector)
   - Data collection methods
   - Data Management (Tools and Platforms)
   - Data analysis and visualization (Using QGIS)

Hands-on 1. Develop scenarios which uses GIS fundamentals in any real-world example

2. **Location Based Services**
   - What is a Location based service?
   - How does location-based technology work
   - Types of location-based services
     - ➤ Geocoding & Reverse Geocoding
     - ➤ Maps & Navigation
     - ➤ Geo-processing

Hands-on 2. Which LBS service should be used to accomplish the given Use Cases?

3. **LBS Use Cases**
   - COVID Smart Lock Down System (NCOC)
   - Crop Insurance Risk Modeling (TPLI)
   - Telecom Service Delivery Monitoring (PTA)
   - Delivery Optimization
   - Location based Marketing

Hands-on 3. Interactive exercise to brainstorm LBS uses cases based on their respective industries.

COURSE CONTENTS

4. TPLMaps API Portal Walk Through

- Registration process and API key
- User Dashboard Overview
- Products Overview and it's Usage
- Demos Overview
- Live Demo Implementation on JavaScript, Angular and React JS.
- Challenges/Issues related to Integration

Hands-on 4. Exercises:
- › Register and generate API key
- › Run demos of APIs

5. Training Session Hands on practice on LBS Platform

- Single page web app with TPLMaps Initialization
- Map Events
- Implementation of Search API Functionality
- How to visualize warehouse locations along on Map
- Points as Clusters
- How to implement Routing and find optimization route between multiple points
- How to Overlay multiple layers over map
- Working with Polygon, Polyline & Layers
- Markers and Custom Markers
- Using GeoJSON with TPLMaps
- HeatMap Layer

TRAINERS

Omair Khan
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https://t.ly/Ao9Kr

Omair Khan is an accomplished Chief Technology Officer with over 20 years of experience in technology and data analytics. He brings a wealth of expertise in driving data strategy, architecting scalable data solutions, and leading multidisciplinary teams. His tenure at TPL Maps, United Bank Limited, Teradata, and other esteemed organizations has honed his skills in transforming complex data ecosystems into actionable insights, fostering a culture of innovation, and ensuring data governance and compliance. He excels in leveraging advanced analytics and machine learning to optimize business processes, enhance decision-making, and deliver significant ROI.

WHY CHOOSE US?

At AshreiTech, we're not just another tech training company; we're the pinnacle of excellence in the industry. With our top tier training programs, led by renowned trainers and backed by high caliber strategic partners, we guarantee an experience that's second to none.

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