

GeoServer Certificate Course

Course Overview

GeoServer is an open-source server software that allows users to share and publish geospatial data on the web. It is designed to enable the creation of map services, serving spatial data in formats such as Web Map Service (WMS), Web Feature Service (WFS), and Web Coverage Service (WCS).

some key features and capabilities:

- **Data Sources:** GeoServer supports a wide range of data sources, including shapefiles, GeoTIFF, PostGIS (spatial extension for PostgreSQL), Oracle Spatial, Microsoft SQL Server, and more. It can connect to these sources and publish their spatial data.
- **Data Publication:** Once the data sources are connected, GeoServer allows users to publish the data as OGC-compliant services. This means the data can be accessed by other applications and clients that support OGC standards.
- **Styling and Symbolology:** GeoServer provides a powerful styling engine that allows users to define how their data should be visualized. It supports both simple and advanced symbolology, including custom symbols, colors, labels, and rules. Styling can be defined using SLD (Styled Layer Descriptor) or CSS (Cascading Style Sheets).
- **Data Transformation and Processing:** GeoServer offers various data transformation and processing capabilities. It supports on-the-fly reprojection, allowing data to be served in different coordinate reference systems. Additionally, it can perform spatial queries, filtering, and data aggregation.
- **Security and Authentication:** GeoServer includes security features to control access to data and services. It supports authentication mechanisms like LDAP, Active Directory, and database authentication. Additionally, it allows the configuration of fine-grained access control rules for different users or user groups.
- **Extensibility and Integration:** GeoServer is highly extensible, allowing developers to create custom functionality through plugins and extensions. It can integrate with other open-source geospatial tools and frameworks, such as OpenLayers, Leaflet, and QGIS.

Overall, GeoServer serves as a reliable and scalable solution for sharing geospatial data over the web. It is widely used in various domains, including government agencies, environmental organizations, transportation, urban planning, and more. As an open-source project, it benefits from an active community of developers and users, ensuring continuous improvement and support.

Pre-Requisites

- Basic Geospatial Concepts
- GIS Fundamentals
- Web Technologies
- Spatial Databases
- OGC Standards
- Spatial Data Visualization
- Server Administration

While these prerequisites can provide a strong foundation, You can start learning GeoServer with basic knowledge and gradually build upon it through hands-on experience and practice.

Benefits of Learning GeoServer

Learning GeoServer offers several benefits for individuals working with geospatial data and web mapping. Here are some key advantages:

- **Data Publishing:** GeoServer allows you to publish geospatial data as web services compliant with industry-standard protocols like WMS, WFS, and WCS.
- **Web Mapping:** GeoServer provides the ability to create dynamic web maps, allowing users to visualize and explore geospatial data through web browsers or mapping applications.
- **Data Integration:** GeoServer supports a wide range of data sources, including shapefiles, databases (such as PostGIS, Oracle Spatial), and remote services.
- **Customization and Styling:** GeoServer offers powerful styling capabilities, allowing you to customize the appearance of your geospatial data. You can define symbology, colors, labels, and transparency to create visually appealing maps that effectively convey information.
- **Data Transformation and Analysis:** GeoServer supports on-the-fly data transformation, enabling you to reproject geospatial data into different coordinate systems and formats. It also provides spatial query capabilities, allowing you to extract specific features based on spatial relationships.
- **Interoperability and Standards Compliance:** GeoServer adheres to Open Geospatial Consortium (OGC) standards, ensuring interoperability with other OGC-compliant tools and applications.
- **Open-Source and Cost-Effective:** GeoServer is an open-source software, which means it is freely available and can be customized to suit specific needs.
- **Career Advancement:** Proficiency in GeoServer is a valuable skill in the geospatial industry. By learning GeoServer, you enhance your resume and open doors to various career opportunities. Many organizations, including government agencies, research institutions, and consulting firms, rely on GeoServer for their geospatial data publishing needs.

Overall, learning GeoServer empowers you to effectively publish, share, and manipulate geospatial data, facilitating web mapping applications and enabling data-driven decision-making processes.

Related Job Roles

- Geospatial Solutions Architect
- Geospatial Data Analyst
- Geospatial System Administrator
- Geospatial Data Manager
- Geospatial Web Developer

These are some examples of job roles where proficiency in GeoServer can be valuable. The geospatial industry encompasses various sectors, including government, environmental management, urban planning, transportation, and more. GeoServer skills can be applicable in positions involving data management, analysis, development, and system administration within these sectors.

Available Training Options

- Online/Offline
- Weekdays Batches
- Weekend Batches
- Course - Duration: 20 Days
- Mode of Training - Online - Live Online Classes
- Daily 1Hr (Need to have a laptop or Computer with Good Internet)

Dedicated Trainer, Practical sessions. One-on-One Live Training Session with Hands-on Practical Training. For fees details and discounts whatsapp on Phno: +91 8050123030

GeoServer Training Syllabus

Introduction to GeoServer

- Setting up GeoServer on Windows Environment
- Geoserver Architecture & Protocols
- Overview of GeoServer User Interface
- Working with Vector Spatial Data
- About Workspaces
- Create Workspace
- About Stores
- Import Vector Data to Store
- Publish Vector Data to Geoserver
- Web Map Service (WMS)
- Serving Cascading WMS
- Web Feature Service (WFS)
- Differences WMS and WFS
- Layer Preview in GeoServer
- Connect and Work with QGIS

Layer Styling

- Styling Point Features
- Styling Line Features
- Styling Polygon Features
- GeoServer Basic Vector Styling
- Exporting SLD from QGIS
- Styling Raster Data
- GeoServer Basic Raster Styling

Introduction to security in Geoserver

- Data security
- Creating Group and Rules

For Registration/ Customization of Course / Course Fees

Call / What's app on:	+91 8050123030
Duration:	20 Days
Mode of Training:	Online
Weekdays:	Monday-Friday
Weekends:	Saturday and Sunday

Student Review

Arvind Raju

From : Oman

I've taken up the Advance Python & Arcpy classes from this institute with trainer Mrs. Roselynn is very knowledgeable and teaches the course topics with great detail. Everything was easy to understand and I was always helped with doubts until it was completely rectified. I would definitely recommend this Institute to anyone wanting to learn Python or any of the other courses they offer.

Ullash Ghosh

From : Kolkatta

Excellent teaching of Advance Python programming by experienced trainer. Flexible timings. It was an awesome experience.

Jahir Hussain

From : Qatar

Its Helped me to identify clear, be able next steps towards resolving my own workplace conflict and issues.

Ayeesha H

From : Bangalore

Great knowledge given by the mentor, Best training institution. Mam has explained all the topics very clearly.

Student Review

Vishnu vg From Kerala

My trainer, has a very good command over all the topics. She has explained each topic very clearly. We got a good understanding of all the concepts as she used to write programs daily for the real time scenarios. She make us practice during the classes. Overall I could say, you will be gaining good hands-on and understanding by end of the course

Eshawar Rao From Hubli Dharwad

Excellent Faculty, Excellent Knowledge about subject, madam gives Attention towards every individual student, Madam is having enough Patience in clearing all individual doubts, Overall Excellent training centre to learn and to grow.

Siddhi Kanekar From Pune

Best training institution. Mam has explained all the topics very clearly.
Thank you so much mam for being part of your institution.

Aghil Dev From Orisa

I happy to be a student of rose mam, as she was always present to help. My classes were good and helped me in understanding the concept. Thanks rose mam

Gaurav Chauhan

Position: GIS Analyst

Company:

Carifer Technologies Private Limited
Chennai

Salary: 13 LPA

Harisha

Position: GIS Analyst

Company:

GVS Technosoft Pvt. Ltd
Salary: 10 LPA

Ankit Hemnani

Position: Software Engineer .Net

Company:

Celtic System Pvt.Ltd
Salary: 7.5 LPA

Harish Vijayakumar

Position: Project-Assosiate

Company:

Cognizant Technology Solutions India
Private Limited
Salary: 12 LPA

KIRAN B

Qualification: MBA

Position: Business Head

Experience: 18 Years

His extensive experience in Operations Management, Client Acquisition, HR & Recruitment, and working with startups, he has demonstrated a track record of success across multiple industries and geographies. Starting from an executive level, he progressed to management positions, where he implemented process improvements to enhance efficiency, increase revenue, and drive growth. His vast network of colleges and training centers has significantly contributed to the development of robust recruitment and training pipelines. Moreover, he has successfully engaged with diverse clients.

NIKHIL S D

Qualification: BE Civil

Position: CAD Trainer (Civil)

Experience: 10 Years

Programing Skills: C,C++

2D And 3D Skills: AutoCad, 3D Max, Staad pro, Solid Works, Revit, Google Sketchup and ArcGIS CityEngine

Highly experienced CAD Civil Trainer with a demonstrated track record of success in delivering comprehensive training and instruction, specifically tailored for civil engineering applications. Committed to empowering learners with the necessary skills and knowledge to excel in their civil design and drafting projects.

RAMESH J

Qualification: BE Mech

Position: CAD CAM Trainer (Mech)

Experience: 6 Years

Programing Skills: C,C++,Python

2D And 3D Skills: AutoCad, Catia, Pro-e, Solid Edge, MatLab, Ansys, Solid Works,

Results-oriented CAD Mech Trainer with a decade of experience delivering exceptional training and instruction in 2D and 3D modeling software for mechanical engineering applications. Committed to equipping learners with the skills and knowledge needed to excel in mechanical design, simulation, and manufacturing.

ROSELEN S B

Qualification: MCA

Position: Programmer And Corporate Trainer

Experience: 12 Years

Programing Skills: Java, Python, AI, Machine Learning, Php, SQL, Full Stack

GIS Skill: Arcpy, ArcGIS JS API, ArcGIS Python API, PostGIS, Web AppBuilder, WebGIS

Highly experienced programming mentor with strong background in various programming languages. With over 12 years of training experience, has successfully mentored more than 3000 students, dedicated to helping aspiring programmers and professionals acquire the necessary skills and knowledge to excel in their programming careers.

KAVITA H

Qualification: MSc.IT

Position: Programing Trainer

Experience: 10 Years

Programing Skills: C, C++, Java, MSSQL, MYSQL Server, C# and good knowledge in Servlets, JSP, EJB Worked on J2EE 1.4 Application Server

Kavita is a seasoned programming mentor and trainer with a decade of experience specializing in Java Servlets and MySQL. She has a strong passion for teaching and guiding individuals in mastering these technologies. kavita's in-depth knowledge and practical experience in Java Servlets and MySQL make her an ideal mentor for aspiring programmers looking to excel in web development

ANKIT H

Qualification: MSc.Geoinformatics

Position: GIS Trainer

Experience: 6 Years

GIS Skills: Arc GIS, Arc GIS Pro, QGIS, IGIS, Fusion X, Auto CAD, MS Office, Google Earth, Bhuvan Portal, Geo-Server, Arcgis online, Microstation

Programing Skills: HTML, CSS, Java script, ArcGIS API for Java script, .Net, Python
Ankit is a highly skilled GIS trainer. Has experience in ArcGIS, QGIS, PostGIS, remote sensing, and network analysis. His expertise lies in the field of spatial data analysis and geospatial technologies. He is passionate about sharing his knowledge and helping individuals develop proficiency in GIS applications for various industries.

Want To Expertise Your Tech Skills

Call Us: +91 8050123030

Visit Us: www.ezealtech.com