Analyzing and Visualizing Data with Power Bi

About this course

Power BI is quickly gaining popularity among professionals in data science as a cloud-based service that helps them easily visualize and share insights from their organizations' data.

In this data science course, you will learn Power BI, end to end, starting from how to connect to and import your data, author reports using Power BI Desktop, and publish those reports to the Power BI service. Plus, learn to create dashboards and share with business users--on the web and on mobile devices.

What you'll learn

- Connect, import, shape, and transform data for business intelligence (BI)
- Visualize data, author reports, and schedule automated refresh of your reports
- Create and share dashboards based on reports in Power BI desktop and Excel
- Use natural language queries
- Create real-time dashboards

Prerequisites

- Some experience in working with data from Excel, databases, or text files.

Syllabus

Week 1

- Understanding key concepts in business intelligence, data analysis, and data visualization
- Importing your data and automatically creating dashboards from services such as Marketo, Salesforce, and Google Analytics
- Connecting to and importing your data, then shaping and transforming that data
- Enriching your data with business calculations

Week 2

- Visualizing your data and authoring reports
- Scheduling automated refresh of your reports
- Creating dashboards based on reports and natural language queries
- Sharing dashboards across your organization
- Consuming dashboards in mobile apps

Week 3

- Leveraging your Excel reports within Power BI
- Creating custom visualizations that you can use in dashboards and reports
- Collaborating within groups to author reports and dashboards
- Sharing dashboards effectively based on your organization's needs

Week 4

- Exploring live connections to data with Power BI
- Connecting directly to SQL Azure, HD Spark, and SQL Server Analysis Services
- Introduction to Power BI Development API
- Leveraging custom visuals in Power BI