Introduction to Data Analytics

About this course

With the explosion of data collection enabled by the internet, mobile applications and transformation into the cloud, effective data analytics is turning into a critical tool in practically every domain – from academia to enterprise.

Start off with an overview of different types of data analysis techniques (descriptive, diagnostic, predictive and prescriptive) before diving deeper into descriptive analysis. Then, apply your knowledge with a guided project that makes use of a simple, but powerful dataset available by default in every AWS account: the logs from AWS CloudTrail. The CloudTrail service enables governance, compliance, operational auditing, and risk auditing of your AWS account. Through the project you'll also get an introduction to Amazon Athena and Amazon QuickSight. Examples of common data analysis scenarios and benefits of doing analytics in the cloud will be discussed. And, you'll learn how to build a basic security dashboard as a simple but practical method of applying your newfound data analytics knowledge.

What you'll learn

- Understand what data analytics means in the modern world and how to do data analytics in the cloud
- Explain different types of data analyses – descriptive, diagnostic, predictive, prescriptive
- Understand how to do descriptive data analytics in the cloud, with typical data sets
- Understand at a very high level different aspects of data analytics – such as ingestion, cleaning, processing, querying, visualization
- Build simple visualizations in AWS QuickSight to do descriptive analytics (using S3, Cloudtrail, Athena)