

# Elastic Analyst

**Duration:** 3 Days

**Hands-On Format:** This hands-on class is approximately 80/20 lab to lecture ratio, combining engaging lecture, demos, group activities and discussions with comprehensive machine-based practical programming labs and project work.

## Module 1 – Searching Data

- Define an index pattern with or without a Time Filter field
- Set the time filter to a specified date or time range
- Use the Kibana Query Language (KQL) in the search bar to display only documents that match a specified criteria
- Create and pin a filter based on a search criteria
- Apply a search criteria to a visualization or dashboard

## Module 2 – Visualizing Data

- Create a Metric or Gauge visualization that displays a value satisfying a given criteria
- Create a Lens visualization that satisfies a given criteria
- Create an Area, Line, Pie, Vertical Bar or Horizontal Bar visualization that satisfies a given criteria
- Split a visualization using sub-bucket aggregations
- Create a visualization that computes a moving average, derivative, or serial diff aggregation
- Customize the format and colors of a line chart or bar chart
- Using geo data, create an Elastic map that satisfies a given criteria
- Create a visualization using the Time Series Visual Builder (TSVB) that satisfies a given set of criteria
- Define multiple line or bar charts on a single TSVB visualization
- Create a chart that displays a filter ratio, moving average, or mathematical computation of two fields
- Define a metric, gauge, table or Top N visualization in TSVB
- Create a Tag Cloud visualization on a keyword field of an index
- Create a Data Table visualization that satisfies a given criteria
- Create a Markdown visualization
- Define and use an Option List or Range Slider control
- Create a Dashboard that consists of a collection of visualizations

## Module 3 – Analyzing Data

- Answer questions about a given dataset using search and visualizations
- Use visualizations to find anomalies in a dataset
- Define a single metric, multi-metric, or population Machine Learning job
- Define and use a scripted field for an index
- Define and use a Space in Kibana