



Data Analytics 101 with Python & Pandas

An introductory workshop for data analysis/science with Python Pandas library taught by instructors.

What you'll learn:

- Getting Started with Pandas
 - Data Structures
 - Function Applications
 - Descriptive Statistics
- **❖** Data Loading, Storage, and File Formats
 - Reading and Writing in Text Format
 - o JSON, XML, HTML Format
 - Interacting with Web APIs, Databases
- **❖** Data Cleaning and Preparation
 - Missing Data
 - o Data Transformation, Manipulation
- **❖** Data Wrangling: Join, Combine, and Reshape
 - Hierarchical Indexing
 - Combine, Reshape, Pivot Datasets
- Plotting and Visualization
 - Matplotlib, Pandas, and Seaborn
 - o Line, Bar, Histogram, Scatter, FacetGrid plots
- Data Aggregation and Group Operations
 - GroupBy, Pivot Tables, Cross-Tabulations