COURSE SYLLABUS

# Python Data Visualization & Interactive Dashboards

Learn to gather, manipulate, and analyze real-life data in this course, where you'll gain hands-on experience with Python's NumPy and Pandas libraries. Develop your data visualization skills using Matplotlib, Seaborn, Plotly, and Dash Enterprise, and complete real-life projects that can be deployed online.

Group classes (Live Online) and onsite training are available for this course. For more information, email onsite@graduateschool.edu or visit: https://sdfm.graduateschool.edu/courses/python-data-visualization




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## Course Outline

### Conducting Advanced Exploratory Analysis

- NumPy array
- Array containers
- Indexing on an array
- Broadcasting
- Reshaping
- Universal functions
- Series
- DataFrame
- Slicing DataFrame
- Filtering DataFrame
- Understanding JSON
- Working with APIs

### Building Dashboards and Visualizing Data

- Dash Callbacks
- Client Callbacks
- Pattern Callbacks
- Dash core components
- Date Picker
- Date Range

- More Dash Components
- Graph
- Dash HTML Components
- Dash Styling

## Presenting Information with Conviction and Persuasion

- Dash Styling
- Dash and Bootstrap
- Creating your own Components
- Deployment
- Make a live presentation