

Data Visualization with Python —Formula

Level: Intermediate

Duration: 5 weeks (10 sessions × 40 min each ≈ 7 hours)

Audience: Learners with basic Python and pandas knowledge

Course Goal: Enable students to create effective, interactive visualizations and communicate insights clearly through data storytelling.

Course Fees:

- **Self-paced:** \$100
- **Instructor-led (10 sessions):** \$150

Learning Objectives

By the end of this course, students will be able to:

- Create clear and informative plots using **Matplotlib** and **Seaborn**.
- Build **interactive visualizations** with Plotly.
- Design dashboards and visual stories that highlight data insights.
- Apply visualization best practices for data analysis and presentation.
- Complete a mini-project building a data visualization dashboard.

Weekly Breakdown:

1. Week 1: Matplotlib basics – line, bar, scatter plots
2. Week 2: Seaborn – heatmaps, scatter & statistical plots
3. Week 3: Plotly for interactive visualizations
4. Week 4: Storytelling with data
5. Week 5: Final project: Build a data visualization dashboard

End-of-Course Deliverables

- ✓ Interactive visualization dashboard
- ✓ Clean notebook with plots and narrative
- ✓ Short presentation/report of insights