



**matplotlib**



**plotly**

**{shinylive}:  
SERVERLESS  
SHINY  
APPS**



# Unveiling Data Stories

Python for Visualization and  
Exploration

# Workshop Details

- Instructor: *Tanya Khanna*
- Email: [tk759@scarletmail.rutgers.edu](mailto:tk759@scarletmail.rutgers.edu)
- Course Materials: Github Link -  
[https://github.com/Tanya-Khanna/DataScienceWorkshop\\_Fall-2024\\_NBL](https://github.com/Tanya-Khanna/DataScienceWorkshop_Fall-2024_NBL)
- Workshop Recordings: <https://libguides.rutgers.edu/datascience/python>
- Spring 2024 Workshops: [Link](#)
- Workshop Feedback Form: [https://rutgers.libwizard.com/f/graduate\\_specialist\\_feedback](https://rutgers.libwizard.com/f/graduate_specialist_feedback)

# Workshops Schedule

Fall 2024 workshops calendar

Introduction to Python Programming	September 9, 2024; 4 – 5:30 PM
Advanced Python Programming	September 16, 2024; 4 – 5:30 PM
Web Scraping with Python	September 23, 2024; 4 – 5:30 PM
Mastering Data Analysis: Pandas and Numpy	September 30, 2024; 4 – 5:30 PM
Data Management with Python: SQL and NoSQL	October 7, 2024; 4 – 5:30 PM
Python for Visualization and Exploration	October 14, 2024; 4 – 5:30 PM
Introduction to Machine Learning: Supervised Learning	October 21, 2024; 4 – 5:30 PM
Introduction to Machine Learning: Unsupervised Learning	October 28, 2024; 4 – 5:30 PM
Deploying Machine Learning Models	November 4, 2024; 4 – 5:30 PM
Ethical AI and Responsible Data Science	November 11, 2024; 4 – 5:30 PM
Large Language Models (LLMs) and ChatGPT	November 18, 2024; 4 – 5:30 PM

# Table of Contents

- A. What is Matplotlib?
- B. Basic plots, Plot Types, Multiple Plots Visualizations
- C. What is Plotly?
- D. Comparison between Matplotlib & Seaborn
- E. Types of Plots in Plotly
- F. Exploratory Data Analysis (EDA in Python)
- G. Bonus Section: Shinylive with Plotly