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Session goals

- · Intro to Common Python Packages used for Data Engineering and Machine Learning
- · Pandas
- · Numpy
- · Seaborn/MatPlotLib/Pillow
- · SciKit-Learn

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Pandas

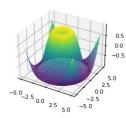
- · Name is derived from "Panel Data"
- · Pandas is a python Package that aims to make data engineering fast, flexible and intuitive
- · Support for multiple data types, read, write
- · Perform statistical analysis
- · Basic visualizations



Numpy

- · Numerical Python
- Fundamental package for scientific computing in Python
- · Provides a multidimensional array object support

· Notebook = 00-Numpy.ipynb



SciKit-Learn

- · scikit-learn is a Python module for machine learning and data engineering built on top of SciPy
- · Classification
- · Regression
- · Clustering
- · Dimensionality Reduction
- · Data Preprocessing



Seaborn/MatplotLib/Pillow

- Seaborn is a Python visualization library based on matplotlib
- Matplotlib is a comprehensive library for creating static, animated and interactive visualizations in python.
- Pillow is "Python Imaging Library"



Notebook - 01-Visualization-The-Gateway-Drug.ipynb Notebook - 03-Seaborn.ipynb

Key learnings and insights

- · Learnings and insights
 - · Learnings and insights 1
- · Learnings and insights 2

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