SciPy

- SciPy is a collection of mathematical algorithms and convenience functions built on the NumPy extension of Python
- SciPy contains various tools and functions for solving common problems in scientific computing
- It adds significant power to the Python session by providing the user with high-level commands and classes for manipulating and visualizing data

SciPy

- Each group of functions are classified as subpackages in SciPy
- https://docs.scipy.org/doc/scipy/reference/
 - Special mathematical functions (scipy.special) airy, elliptic, bessel, etc.
 - Integration (scipy.integrate)
 - Optimization (scipy.optimize)
 - Interpolation (scipy.interpolate)
 - Linear Algebra (scipy.linalg)
 - Statistics (scipy.stats)

SciPy

- Other Modules:
 - Fourier Transforms (scipy.fftpack)
 - Signal Processing (scipy.signal)
 - Compressed Sparse Graph Routines (scipy.sparse.csgraph)
 - Spatial data structures and algorithms (scipy.spatial)
 - Multidimensional image processing (scipy.ndimage)
 - Data IO (scipy.io)
 - Weave (scipy.weave)