

## AHA! Activity Health Analytics

- Python for Data Analytics
- Working with Activity/Health Data
- Activity Change Detection

# Python for Data Analytics

L1. Environment Setup

L2. Jupyter Notebook

L3. NumPy and SciPy

L4. Pandas Series

L5. Pandas DataFrame

AA. Appendix A: Python 3

AB. Appendix B: Data Structures

AC. Appendix C: Markdown and Latex

PA. Pandas and K-Means Clustering

# Working with Activity/Health Data

L1. Cleaning

L2. Hierarchical Indexing

L3. Visualization

L4. Aggregation

L5. Time Series

PA. Clinical Data Aggregation

# Activity Change Detection

L1. Fitbit Activity Data

L2. Activity Density Maps

L3. Physical Activity Change Detection

L4. Virtual Classifier: Part 1

L5. Virtual Classifier: Part 2

PA. Daily Change Scores