AHA! Activity Health Analytics

Course Modules

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

Python for Data Analytics

1. Environment Setup
2. Jupyter Notebook
3. Numpy and Scipy
4. Pandas Series
5. Pandas DataFrame
A. Appendix A: Python 3
B. Appendix B: Data Structures
C. Appendix C: Markdown and Latex
• Programming Assignment: Pandas and K-Means

Working with Activity & Health Data

1. Cleaning
2. Hierarchical Indexing
3. Visualization
4. Aggregation
5. Time Series

- Programming Assignment: Clinical Data Aggregation

Activity Change Detection

1. Fitbit Activity Data
2. Activity Density Maps
3. Physical Activity Change Detection
4. Virtual Classifier: Part 1
5. Virtual Classifier: Part 2

- Assignment: Daily Change Scores