

Coding Review – Collected from TDI Foundation Program

Exceptions:

1. Catching general exceptions (???)
2. Handling success
3. Doing something with error
4. Exception and Call stack
5. Reading Trace backs

Functions:

1. Functions as First-Class Objects
2. Closures
3. Variable Arguments and Keywords
4. Decorators

Object-oriented Programming

1. Everything is an Object
2. Defining a Python Class
3. Adding Attributes and Methods
4. Inheritance

Python Built-in Data Structures

1. List
2. Dict
3. Set
4. Tuple
5. Comprehensions

Pandas:

1. Nouns (objects) & Verbs (operations)
2. Loading Data (A little bit more on `read_csv`)
3. Indices in Pandas
4. Function application and mapping
5. Filtering data
6. Joining data
7. Aggregating data
8. Sorting by indices and columns
9. Pandas Timestamps (???)
10. DataFrame Resampling
11. DataFrame and Iterators (???)

Numpy:

1. Numpy Indexing
2. Saving Numpy Data Files

3. Relationship with Pandas

Matplotlib:

1. Matplotlib and Pyplot

Scikit-learn Workflow

1. Writing custom estimators and transformers
2. Pipelines
3. Feature Unions
4. Data types
5. Validating implementations