Semester 1: Python

Session 1 (Ray & Radhika):

Github Intro

Syllabus

Learning Resources

Python Basic (Install library, Learning resources, Data Structure)

Session 2 (Radhika):

Learn: Use Python to create the directory and move files (Owner: Radhika)

Assignment: Use python to automate the tableau refresh (Owner: Ray)

Audit Use: Improve team efficiency by automating the process

Session 3 (Ray):

Learn: Use Google API to get back the full address, postal code (Owner: Ray/Fannie)

Assignment: Use Google API to do the translation (Owner: Ray)

Audit Use: Use API to get the gold price/material price/index price/exchange rate

Session 4 (Fannie):

Learn: Use selenium to scrap the webpage / upload the data etc. (Owner: Fannie/Darren)

Assignment: Scrape a webpage

Audit Use: get the gold price/material price/index price/exchange rate

Semester 2: Predictive Analysis

Session 5 (Jorge)

Predictive analysis (Regression)

Audit Use: Reveal, SAP

Session 6 (Marina)

Predictive analysis (Decision Tree)

Audit Use: Milestone Analysis

Session 7 (Chelvan)

Predictive analysis (Classification, Clustering)

Audit Use: Spin Master Vendor analysis

Session 8 (Fannie)

Predictive analysis (Time Series)

Audit Use: Financial forecast, Market forecast

Semester 3: Advanced Tableau

Session 9 (Fannie)

Advanced Tableau (Table Calculation, Level of Detail, Filter sequence)

Learn:

Assignment:

Audit Use:

Session 10 (Ray)

Advanced Tableau (Excel Modeling & Tableau)

Learn: Simplified Mining Model

Assignment: Oil & Gas Analytics

Audit Use:

Extra Sessions (Every other week)

Kaggle Competition!