

intro

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1 Welcome to QM 492

1.1 Data Analysis and Visualization

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Course website: bit.ly/mis492_syl

2 Course Plan:

- 8 weeks of course work.
- 8 weeks of Project work and self learning.

3 Course Work Plan:

- Week 1: Python primer.
- Week 2: Pandas and dataframes.
- Week 3: Loading/Storing data.
- Week 4: External data sources (The internet).
- Week 5: Exploring and cleaning Data.

4 Course Work Plan (cont.):

- Week 6: Reshaping data.
- Week 7: Plotting and Visualization
- Week 8: Topics to persue:
- Natural Language Processing (NLP)
- Machine Learning (ML)
- Social Network Analysis (SNA)

5 Projects:

- Midterm project:
- Design to evaluate skills from week 1 to 7
- Unified requirements

6 Projects (cont.):

- Final Project:
- Apply learned and self-learned skills
- Phased:
 1. Proposal (class presentation)
 2. 1st Submission (meeting)
 3. 2nd Submission (meeting)
 4. Final Submission (class presentation)

7 Recommended resources:

- [Think Python](#): Your reference for the python language (Free online book)
- [Python for Data Analysis](#): Excellent book on Pandas and data analysis and visualization (Paid)
- [Programming Collective Intelligence](#): Best introductory book to making use of data (Paid)

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