MGT-644(b) Computational Methods for Doctoral Research in Management

Younge Kenneth				
Cursus	Sem.	Туре	Language of	English
Management of technology	Join.	Obl.	Language of teaching Credits Session Exam Workload Hours	English 2 Written & Oral 60h 84 84
			Number of positions	

Summary

The objective of this course is to introduce doctoral students to computational methods for data-driven empirical research in management.

Content

The course complements courses in statistics and econometrics with a programmatic understanding of how to acquire, store, manipulate, measure, plot, analyze, and classify data. The course requires students to program in Python. Students who are not proficient with the basic syntax, data structures, and programming methods of Python should take an online course or boot camp to learn the basics of Python **prior to the start of class**. Please contact the Professor for suggested courses, tutorials, or MOOCs that would help you to fulfill this requirement.

By the end of the course, students will understand how to work with data in python to conduct doctoral research in economics and management. The ultimate learning objective of the course is to build a toolkit that will elevate the empirical quality of each student's dissertation.

Keywords

Data Processing, Visualization, Cloud Computing, Data Analysis, Text Analysis, Simulation, Machine Learning.

Assessment methods

Students will be evaluated based on five, take-home assignments – each worth 20% of the overall course grade. Each assignment should take 5 to 6 hours to complete. Each assignment is due before the start of the next class; the final assignment is due one week after the final class.

Create a new jupyter notebook for each assignment and commit it to your git repository. Name your jupyter notebooks sequentially as:

a1.ipynb a2.ipynb a3.ipynb a4.ipynb a5.ipynb