# **CUNY School of Professional Studies**

# DATA XXX COURSE TITLE

CUNY SPS Master of Science in Data Science

#### Fall 2021

Instructor Name: Instructor Email: Class Meetup: Office Hours:

Degree Program: M.S. in Data Science

Credits: 3 graduate credits Prerequisites: None

Type of Course: Required course

#### Course Description

Course Learning Outcomes:

Program Learning Outcomes addressed by the course:

How is this course relevant for data analytics professionals?

# Grading

#### **Grade Distribution**

Quality of Performance	Letter Grade	Range $\%$	GPA
Excellent - work is of exceptional quality	A	93 - 100	4
Excellent	A-	90 - 92.9	3.7
Good - work is above average	B+	87 - 89.9	3.3
Satisfactory	В	83 - 86.9	3
Below Average	B-	80 - 82.9	2.7
Poor	C+	77 - 79.9	2.3
Poor	$^{\mathrm{C}}$	70 - 76.9	2
Failure	$\mathbf{F}$	< 70	0

#### Schedule

Note: Schedule is subject to change.

Topic	Readings	Deliverables
Set up	Supplementary materials on Gephi	Environment Setup
Environment		-
Network Analysis	Natural Language Processing with	Week 2 Assignment
Overview Text	Python Ch.1 2 Social Network Analysis	
Mining Overview	for Startups Ch.1 Supp. materials on	
-	iGraph package	
Network Analysis	Social Network Analysis for Startups	Week 3 Assignment
Graph Theory	Chapter 2 Supplementary material on	
Definitions	Graph Theory	
Network Analysis	Social Network Analysis for Startups	Project 1
Centrality	Chapter 3	
Measures	_	
Network Analysis	Social Network Analysis for Startups	Week 5 Assignment
Clustering 1	Chapter 4	
Network Analysis	Social Network Analysis for Startups	Project 2
2-mode networks	Chapters 5 and 6	
Text Mining	Natural Language Processing with	Week 7 Assignment
Natural Language	Python Chapter 3 and 4	
Processing		
Text Mining:	Natural Language Processing with	Week 8 Assignment
Word Association	Python Chapters 5 and 6	
Network	Natural Language Processing with	Project 3
Analysis:Topic	Python Chapters 7-8	
Mining 1		
Network	Natural Language Processing with	Week 10 Assignment
Analysis:Topic	Python Chapter 9	
Mining 2		
Network Analy-	Natural Language Processing with	Week 11 Assignment
sis:Sentiment	Python chapters 10 and 11	
Analysis		
Text Mining:	Natural Language Processing with	Week 12 Assignment
Text-Based	Python chapter 6 Supplementary material	
Prediction	on algorithms	
Network Analysis	NONE	Project 4
and Text Mining:		
Longitudinal		
Analysis		
Network Analysis	NONE	Final Project Proposals Due
and Text Mining		_
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