

WK	Topics	Readings	In-Class Activities	Weekly Assignments	Final Project (FP)
1	Course Startup	Syllabus Roadmap	Introduce Yourself	Computing Setup: Your own computer	
2	What Is Machine Learning	Géron Chap. 1	Discussion: Potential Final Project Ideas		Discuss FP Ideas
3	Intro to Cloud Computing	See links in Weekly Schedule	Discussion: Topic TBA	AWS Academy Learner Lab (User Guide & Service Access)	Discuss FP Ideas
4	Python for ML Crash Course - Part 1	McKinney Chaps. 2, 4	Discussion: Topic TBA	Jupyter Notebook Numpy	Research FP Candidates
5	Python for ML Crash Course - Part 2	McKinney Chaps. 5, 6, 7, 9	Review Solutions Discussion: Topic TBA	Matplotlib	Research FP Candidates
6	Data Preprocessing Using Cloud Computing	Raschka & Mirjalili Chap. 4	Review Solutions Discussion: Topic TBA	Data Preprocessing	Research FP Candidates
7	Building Pipelines For Machine Learning	Géron Chap. 2	Review Solutions Discussion: Topic TBA	Building ML Pipelines (includes feature engineering for textual data)	Research FP Candidates
8	Feature Engineering (for numeric data)		Review Solutions Discussion: Topic TBA		
9	Training Models on Cloud Platforms Testing and Evaluation Using Cloud Computing	Géron Chaps. 3, 4 Raschka & Mirjalili Chap. 10	Review Solutions Discussion: Topic TBA	Model Model Training (includes feature eng. For numeric data, training, and testing and evaluation)Training	FP Proposal Due
10	Dimensionality Reduction Model Fine-Tuning	Géron Chap. 8 Raschka & Mirjalili Chaps. 5, 6, 7	Review Solutions Discussion: Topic TBA	Dimensionality Reduction & Model Fine-Tuning	Work On FP
11	TBA	TBA	TBA	TBA	Work On FP
12	TBA	TBA	TBA	TBA	Work On FP
13	TBA	TBA	TBA	TBA	Work On FP
14	Fall Break				Work On FP
15	Work on Final Project		Discussion: Topic TBA		Work On FP
16	Online Lab Session Instead of Class				FP Deliverables Due
17	Exam Period				