



Program Curriculum

TIMELINE	COURSE NUMBER	COURSE	MODULE NAME
PREP	COURSE 1	PRE-PROGRAM PREPARATORY RESOURCES	<ul style="list-style-type: none">• REVISION OF PREP CONTENT
WEEK 3 - 9	COURSE 2	INTRODUCTION TO MACHINE LEARNING IN CLOUD	<ul style="list-style-type: none">• WELCOME TO THE PROGRAM (UNGRADED)• EXPLORATORY DATA ANALYSIS• INTRODUCTION TO ML + UNDERSTANDING THE ML PIPELINE• INTRODUCTION TO CLOUD• ELASTIC PROVISION SERVICES OF CLOUD AND SETTING UP CLOUD• COURSE 2 ASSIGNMENT - EDA USING CLOUD• EXAM (COURSE 2)
WEEK 10 - 15	COURSE 3	DATA WAREHOUSING AND DATA MANAGEMENT	<ul style="list-style-type: none">• HADOOP FRAMEWORK• SQL QUERYING• HIVE QUERYING• CASE STUDY - DATA WAREHOUSING AND DATA MANAGEMENT• COURSE 3 - ASSIGNMENT - HIVE QUERYING• CAREER WEEK / EMPLOYABILITY TEST

TIMELINE	COURSE NUMBER	COURSE	MODULE NAME
WEEK 16 - 21	COURSE 4	BIG DATA PROCESSING USING SPARK	<ul style="list-style-type: none">• INTRODUCTION TO SPARK• PYSPARK PROGRAMMING• PYSPARK IMPLEMENTATION ON A DATASET• ASSIGNMENT• EXAM (COURSE 3 & 4)
WEEK 22 - 27	COURSE 5	MACHINE LEARNING - 1	<ul style="list-style-type: none">• INFERENCE STATISTICS AND HYPOTHESIS TESTING• INFERENCE STATISTICS AND HYPOTHESIS TESTING• LINEAR REGRESSION• LINEAR REGRESSION• LOGISTIC REGRESSION
WEEK 28 - 35	COURSE 6	MACHINE LEARNING - 2	<ul style="list-style-type: none">• CAREER WEEK / EMPLOYABILITY TEST• DECISION TREES• RANDOM FOREST TREES• ASSIGNMENT• PRINCIPAL COMPONENT ANALYSIS + LINEAR ALGEBRA• CLUSTERING• EXAM (Course 5 & 6)



TIMELINE	COURSE NUMBER	COURSE	MODULE NAME
WEEK 36 - 42	COURSE 7	DEEP LEARNING AND NLP FUNDAMENTALS	<ul style="list-style-type: none"> • INTRODUCTION TO TENSORFLOW • INTRODUCTION TO NEURAL NETS • CONVOLUTIONAL NEURAL NETS • NLP FUNDAMENTALS • SEQUENCE MODELS • ASSIGNMENT • BREAK
WEEK 43 - 46	COURSE 8	CASE STUDIES ON NLP AND COMPUTER VISION	<ul style="list-style-type: none"> • CASE STUDY ON COMPUTER VISION • CASE STUDY ON APPLICATIONS OF DEEP LEARNING IN NLP • IMPLEMENTATION: REGRESSION + MODEL SELECTION ON SAGEMAKER • ASSIGNMENT
WEEK 47 - 52	COURSE 9	DEPLOYMENT CAPSTONE	<ul style="list-style-type: none"> • DEPLOYMENT • CAPSTONE PROJECT

