

Date	Unit	Lesson Title	Start	End	Mode of Delivery
C1: FOUNDATIONS OF DATA SCIENCE: PYTHON AND SQL		Key Topics: Week 1: Intro to Data Science and Databases Week 2: SQL Basics Week 3: SQL Advanced, Intro to Numpy Week 4: Intro to Pandas, EDA Basics Week 5: EDA Advanced, Data Visualization	Start	End	Mode of Delivery
SAT	4 Jul-26	Welcome + Introduction + Onboarding	09:00	12:00	NTU@One-North
SUN	5 Jul-26				
MON	6 Jul-26				
TUE	7 Jul-26	1.1 Intro to Data Science	19:00	22:00	Online Zoom
WED	8 Jul-26	Self Study	19:00	22:00	Self study
THU	9 Jul-26	1.2 Introduction to Database	19:00	22:00	Online Zoom
FRI	10 Jul-26	Self Study	19:00	22:00	Self study
SAT	11 Jul-26	CW Career Workshop #1 - Uncover Your Next Path: Career Discovery for Mid-Career Changers	09:00	12:00	NTU@One-North
SUN	12 Jul-26				
MON	13 Jul-26				
TUE	14 Jul-26	1.3 SQL Basic - DDL	19:00	22:00	Online Zoom
WED	15 Jul-26	Self Study	19:00	22:00	Self study
THU	16 Jul-26	1.4 SQL Basic - DML	19:00	22:00	Online Zoom
FRI	17 Jul-26	Self Study	19:00	22:00	Self study
SAT	18 Jul-26	CO Coaching 1	09:00	12:00	NTU@One-North
SUN	19 Jul-26				
MON	20 Jul-26				
TUE	21 Jul-26	1.5 SQL Advanced	19:00	22:00	Online Zoom
WED	22 Jul-26	Self Study	19:00	22:00	Self study
THU	23 Jul-26	1.6 Introduction to Numpy	19:00	22:00	Online Zoom
FRI	24 Jul-26	Self Study	19:00	22:00	Self study
SAT	25 Jul-26	CO Coaching 2	09:00	12:00	NTU@One-North
SUN	26 Jul-26				
MON	27 Jul-26	Self Study	19:00	22:00	Self study
TUE	28 Jul-26	1.7 Introduction to Pandas	19:00	22:00	Online Zoom
WED	29 Jul-26	Self Study	19:00	22:00	Self study
THU	30 Jul-26	1.8 Exploratory Data Analysis (EDA) Basic	19:00	22:00	Online Zoom
FRI	31 Jul-26				
SAT	1 Aug-26	CO Coaching 3	09:00	12:00	NTU@One-North
SUN	2 Aug-26				
MON	3 Aug-26	CW Career Workshop #2 - Stand Out: Building a Powerful Professional Brand	19:00	22:00	Online Zoom
TUE	4 Aug-26	1.9 EDA Advanced	19:00	22:00	Online Zoom
WED	5 Aug-26	Self Study	19:00	22:00	Self study
THU	6 Aug-26	1.10 Data Visualization	19:00	22:00	Online Zoom
FRI	7 Aug-26	Module Assessment + Self Study	19:00	22:00	Self study
SAT	8 Aug-26	CO Coaching	09:00	12:00	NTU@One-North
SUN	9 Aug-26	PH National Day			
C2: SCALABLE DATA SOLUTIONS: BIG DATA ENGINEERING ESSENTIALS		Key Topics: Week 1: Introduction Big Data, Data Engineering and Data Architecture Week 2: Data Encoding, Data Flow, Data Extraction and Web Scraping Week 3: Data Warehouse, Data Pipelines and Orchestration Week 4: Data Orchestration and Testing, Memory Processing Week 5: Data Transformation, Stream Processing and Analytics Week 6: Project creation	Start	End	Mode of Delivery
MON	10 Aug-26	PH National Day Public Holiday			
TUE	11 Aug-26	2.1 Introduction to Big Data and Data Engineering	19:00	22:00	Online Zoom
WED	12 Aug-26	Self Study	19:00	22:00	Self study
THU	13 Aug-26	2.2 Data Architecture	19:00	22:00	Online Zoom
FRI	14 Aug-26	Self Study	19:00	22:00	Self study
SAT	15 Aug-26	CO Coaching (GCP Setup)	09:00	12:00	NTU@One-North
SUN	16 Aug-26				
MON	17 Aug-26				
TUE	18 Aug-26	2.3 Data Encoding and Data Flow	19:00	22:00	Online Zoom
WED	19 Aug-26	Self Study	19:00	22:00	Self study
THU	20 Aug-26	2.4 Data Extraction and Web Scraping	19:00	22:00	Online Zoom

	Date	Unit	Lesson Title	Start	End	Mode of Delivery
FRI	21 Aug-26		Self Study	19:00	22:00	Self study
SAT	22 Aug-26	CO	Coaching	09:00	12:00	NTU@One-North
SUN	23 Aug-26					
MON	24 Aug-26	CW	Career Workshop #3 - Connecting with Purpose: Networking for Career Transitions	19:00	22:00	Online Zoom
TUE	25 Aug-26	2.5	Data Warehouse	19:00	22:00	Online Zoom
WED	26 Aug-26		Self Study	19:00	22:00	Self study
THU	27 Aug-26	2.6	Data Pipelines and Orchestration	19:00	22:00	Online Zoom
FRI	28 Aug-26		Self Study	19:00	22:00	Self study
SAT	29 Aug-26	CO	Coaching	09:00	12:00	NTU@One-North
SUN	30 Aug-26					
MON	31 Aug-26					
TUE	1 Sep-26	2.7	Data Orchestration and Testing	19:00	22:00	Online Zoom
WED	2 Sep-26		Self Study	19:00	22:00	Self study
THU	3 Sep-26	2.8	Out of Core/Memory Processing	19:00	22:00	Online Zoom
FRI	4 Sep-26		Self Study	19:00	22:00	Self study
SAT	5 Sep-26	CO	Coaching	09:00	12:00	NTU@One-North
SUN	6 Sep-26					
MON	7 Sep-26					
TUE	8 Sep-26	2.9	Distributed Batch Processing and Transformation	19:00	22:00	Online Zoom
WED	9 Sep-26		Self Study	19:00	22:00	Self study
THU	10 Sep-26	2.10	Stream Processing and Analytics	19:00	22:00	Online Zoom
FRI	11 Sep-26		Module Assessment + Self Study	19:00	22:00	Self study
SAT	12 Sep-26	CO	Coaching	09:00	12:00	NTU@One-North
SUN	13 Sep-26					
MON	14 Sep-26					
TUE	15 Sep-26		Project	19:00	22:00	Self study
WED	16 Sep-26		Project	19:00	22:00	Self study
THU	17 Sep-26		Project	19:00	22:00	Self study
FRI	18 Sep-26		Project	19:00	22:00	Self study
SAT	19 Sep-26	PP	Project Presentation	09:00	12:00	NTU@One-North
SUN	20 Sep-26					
C3: BUILDING INTELLIGENT SYSTEMS: MACHINE LEARNING AND GENERATIVE AI		Key Topics: Week 1: Introduction to Machine Learning Week 2: Supervised Learning Week 3: Unsupervised Learning Week 4: Neural Network, Deep Learning and Computer Vision Week 5: Natural Language Processing		Start	End	Mode of Delivery
MON	21 Sep-26					
TUE	22 Sep-26	3.1	Probability and Statistics for ML	19:00	22:00	Online Zoom
WED	23 Sep-26		Self Study	19:00	22:00	Self study
THU	24 Sep-26	3.2	Introduction to Machine Learning	19:00	22:00	Online Zoom
FRI	25 Sep-26		Self Study	19:00	22:00	Self study
SAT	26 Sep-26	CO	Coaching	09:00	12:00	NTU@One-North
		CW	Career Workshop #4 - Crafting the Perfect Resume: Telling Your Unique Story	13:00	16:00	NTU@One-North
SUN	27 Sep-26					
MON	28 Sep-26					
TUE	29 Sep-26	3.3	Supervised Learning	19:00	22:00	Online Zoom
WED	30 Sep-26		Self Study	19:00	22:00	Self study
THU	1 Oct-26	3.4	Supervised Learning - Advanced	19:00	22:00	Online Zoom
FRI	2 Oct-26		Self Study	19:00	22:00	Self study
SAT	3 Oct-26	CO	Coaching	09:00	12:00	NTU@One-North
SUN	4 Oct-26					
MON	5 Oct-26					
TUE	6 Oct-26	3.5	Unsupervised Learning	19:00	22:00	Online Zoom
WED	7 Oct-26		Self Study	19:00	22:00	Self study
THU	8 Oct-26	3.6	Time Series Data and Forecasting	19:00	22:00	Online Zoom
FRI	9 Oct-26		Self Study	19:00	22:00	Self study
SAT	10 Oct-26	CO	Coaching	09:00	12:00	NTU@One-North
SUN	11 Oct-26					

	Date	Unit	Lesson Title	Start	End	Mode of Delivery
MON	12 Oct-26					
TUE	13 Oct-26	3.7	Neural Network & Deep Learning	19:00	22:00	Online Zoom
WED	14 Oct-26		Self Study	19:00	22:00	Self study
THU	15 Oct-26	3.8	Computer Vision (CV)	19:00	22:00	Online Zoom
FRI	16 Oct-26		Self Study	19:00	22:00	Self study
SAT	17 Oct-26	CO	Coaching	09:00	12:00	NTU@One-North
SUN	18 Oct-26					
MON	19 Oct-26					
TUE	20 Oct-26	3.9	Natural Language Processing (NLP)	19:00	22:00	Online Zoom
WED	21 Oct-26		Self Study	19:00	22:00	Self study
THU	22 Oct-26	3.10	NLP - Advanced	19:00	22:00	Online Zoom
FRI	23 Oct-26		Module Assessment + Self Study	19:00	22:00	Self study
SAT	24 Oct-26	CO	Coaching	09:00	12:00	NTU@One-North
SUN	25 Oct-26					
C4: AWS CERTIFIED AI PRACTITIONER						Mode of Delivery
MON	26 Oct-26					
TUE	27 Oct-26		AWS Certified AI Practitioner	19:00	22:00	Online Zoom
WED	28 Oct-26		AWS Certified AI Practitioner	19:00	22:00	Online Zoom
THU	29 Oct-26		AWS Certified AI Practitioner	19:00	22:00	Online Zoom
FRI	30 Oct-26					
SAT	31 Oct-26		AWS Certified AI Practitioner	09:00	16:00	NTU@One-North
SUN	1 Nov-26					
C5: TRANSFORMING BUSINESS WITH GPT: HANDS-ON GENERATIVE AI APPLICATIONS				Start	End	Mode of Delivery
MON	2 Nov-26	CW	Career Workshop #5 - Ace the Interview and Beyond: From Preparation to Next Steps	19:00	22:00	Online Zoom
TUE	3 Nov-26		Generative AI	19:00	22:00	Online Zoom
WED	4 Nov-26		Generative AI	19:00	22:00	Online Zoom
THU	5 Nov-26		Generative AI	19:00	22:00	Online Zoom
FRI	6 Nov-26					
SAT	7 Nov-26		Generative AI	09:00	16:00	NTU@One-North
SUN	8 Nov-26	PH	Deepavali			
C6: FULL STACK PROGRAMMING AND DEPLOYMENT OF AI SOLUTIONS				Start	End	Mode of Delivery
MON	9 Nov-26	PH	Deepavali Public Holiday			
TUE	10 Nov-26		Deployment I: Python Flask, SQLite and HTML, CSS	19:00	22:00	Online Zoom
WED	11 Nov-26		Deployment I: API Programming (replicate, google suite, openAI)	19:00	22:00	Online Zoom
THU	12 Nov-26		Deployment I: Cloud AWS/Render/Google Clab/React/UI UX	19:00	22:00	Online Zoom
FRI	13 Nov-26					
SAT	14 Nov-26		Deployment I: Project Management/Agile/Scrum/Monday.com + Web3 Solidity/Remix/Infura/Etherscan	09:00	16:00	NTU@One-North
SUN	15 Nov-26					
MON	16 Nov-26					
TUE	17 Nov-26		Deployment II: Python Flask, SQLite and HTML, CSS	19:00	22:00	Online Zoom
WED	18 Nov-26		Deployment II: API Programming (replicate, google suite, openAI)	19:00	22:00	Online Zoom
THU	19 Nov-26		Deployment II: Cloud AWS/Render/Google Clab/React/UI UX	19:00	22:00	Online Zoom
FRI	20 Nov-26					
SAT	21 Nov-26		Deployment II : Project Management/Agile/Scrum/Monday.com + Capstone	09:00	16:00	NTU@One-North
SUN	22 Nov-26		Optional Class: Capstone Project	14:00	16:00	Online Zoom

- All lecture will be facilitated Virtually unless otherwise stated
- F2F lecture will be held at NTU@one-north campus (off North Buona Vista Road)
- NTU reserves the right to change the date, mode/venue of lesson or cancel class due to unforeseen circumstances