

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
MON	31 Aug-26					
MON	31 Aug-26					
TUE	1 Sep-26		Welcome + Introduction + Onboarding	09:00	12:00	NTU@One-North
TUE	1 Sep-26		Self Study	13:00	16:00	Self Study
WED	2 Sep-26	1.1	Intro to Data Science	09:00	12:00	NTU@One-North
WED	2 Sep-26		Self Study	13:00	16:00	Self Study
THU	3 Sep-26	1.2	Introduction to Database	09:00	12:00	NTU@One-North
THU	3 Sep-26	1.3	SQL Basic - DDL	13:00	16:00	NTU@One-North
FRI	4 Sep-26	CW	Career Workshop #1 - Uncover Your Next Path: Career Discovery for Mid-Career Changers	09:00	12:00	NTU@One-North
SAT	5 Sep-26					
SUN	6 Sep-26					
MON	7 Sep-26	C1.1	Coaching	09:00	12:00	NTU@One-North
MON	8 Sep-26		Self Study	13:00	16:00	Self Study
TUE	8 Sep-26	1.4	SQL Basic - DML	09:00	12:00	NTU@One-North
TUE	8 Sep-26		Self Study	13:00	16:00	Self Study
WED	9 Sep-26	1.5	SQL Advanced	09:00	12:00	NTU@One-North
WED	9 Sep-26		Self Study	13:00	16:00	Self Study
THU	10 Sep-26	C1.2	Coaching	09:00	12:00	NTU@One-North
THU	10 Sep-26	1.6	Introduction to Numpy	13:00	16:00	NTU@One-North
FRI	11 Sep-26	1.7	Introduction to Pandas	09:00	12:00	NTU@One-North
FRI	11 Sep-26		Self Study	13:00	16:00	Self Study
SAT	12 Sep-26					
SUN	13 Sep-26					
MON	14 Sep-26	C1.3	Coaching	09:00	12:00	NTU@One-North
MON	14 Sep-26		Self Study	13:00	16:00	Self Study
TUE	15 Sep-26	1.8	Exploratory Data Analysis (EDA) Basic	09:00	12:00	NTU@One-North
TUE	15 Sep-26		Self Study	13:00	16:00	Self Study
WED	16 Sep-26	1.9	EDA Advanced	09:00	12:00	NTU@One-North
WED	16 Sep-26		Self Study	13:00	16:00	Self Study
THU	17 Sep-26	1.10	Data Visualization	09:00	12:00	NTU@One-North
THU	17 Sep-26	C1.4	Coaching	13:00	16:00	NTU@One-North
FRI	18 Sep-26		Module Assessment + Self Study	09:00	12:00	Self Study
SAT	19 Sep-26					
SUN	20 Sep-26					
			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	21 Sep-26	2.1	Introduction to Big Data and Data Engineering	09:00	12:00	NTU@One-North
MON	21 Sep-26		Self Study	13:00	16:00	Self Study
TUE	22 Sep-26	2.2	Data Architecture	09:00	12:00	NTU@One-North
TUE	22 Sep-26		Self Study	13:00	16:00	Self Study
WED	23 Sep-26	C2.1	Coaching	09:00	12:00	NTU@One-North
WED	23 Sep-26		Self Study	13:00	16:00	Self Study
THU	24 Sep-26	2.3	Data Encoding and Data Flow	09:00	12:00	NTU@One-North
THU	24 Sep-26	2.4	Data Extraction and Web Scraping	13:00	16:00	NTU@One-North
FRI	25 Sep-26	CW	Career Workshop #2 - Stand Out: Building a Powerful Professional Brand	09:00	12:00	NTU@One-North
FRI	25 Sep-26					
SAT	26 Sep-26					
SUN	27 Sep-26					

	Date	Unit	Lesson Title	Start	End	Mode of Delivery
MON	28 Sep-26	C2.2	Coaching	09:00	12:00	NTU@One-North
MON	28 Sep-26		Self Study	13:00	16:00	Self Study
TUE	29 Sep-26	2.5	Data Warehouse	09:00	12:00	NTU@One-North
TUE	29 Sep-26		Self Study	13:00	16:00	Self Study
WED	30 Sep-26	2.6	Data Pipelines	09:00	12:00	NTU@One-North
WED	30 Sep-26		Self Study	13:00	16:00	Self Study
THU	1 Oct-26	C2.3	Coaching	09:00	12:00	NTU@One-North
THU	1 Oct-26	2.7	Data Orchestration and Testing	13:00	16:00	NTU@One-North
FRI	2 Oct-26					
SAT	3 Oct-26					
SUN	4 Oct-26					
MON	5 Oct-26	2.8	Out of Core/Memory Processing	09:00	12:00	NTU@One-North
MON	5 Oct-26		Self Study	13:00	16:00	Self Study
TUE	6 Oct-26	C2.4	Coaching	09:00	12:00	NTU@One-North
TUE	6 Oct-26		Self Study	13:00	16:00	Self Study
WED	7 Oct-26	2.9	Distributed Batch Processing and Transformation	09:00	12:00	NTU@One-North
WED	7 Oct-26		Self Study	13:00	16:00	Self Study
THU	8 Oct-26	2.10	Stream Processing and Analytics	09:00	12:00	NTU@One-North
THU	8 Oct-26	C2.5	Coaching	13:00	16:00	NTU@One-North
FRI	9 Oct-26		Module Assessment + Self Study	09:00	12:00	Self Study
SAT	10 Oct-26					
SUN	11 Oct-26					
MON	12 Oct-26	CW	Career Workshop #3 - Connecting with Purpose: Networking for Career Transitions	09:00	12:00	NTU@One-North
TUE	13 Oct-26		Project	09:00	13:00	Self Study
WED	14 Oct-26		Project	09:00	13:00	Self Study
THU	15 Oct-26		Project	09:00	13:00	Self Study
FRI	16 Oct-26	PP	Project Presentation	09:00	12:00	NTU@One-North
SAT	17 Oct-26					
SUN	18 Oct-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	19 Oct-26	3.1	Probability and Statistics for ML	09:00	12:00	NTU@One-North
MON	19 Oct-26		Self Study	13:00	16:00	Self Study
TUE	20 Oct-26	3.2	Introduction to Machine Learning	09:00	12:00	NTU@One-North
TUE	20 Oct-26		Self Study	13:00	16:00	Self Study
WED	21 Oct-26	C3.1	Coaching	09:00	12:00	NTU@One-North
WED	21 Oct-26		Self Study	13:00	16:00	Self Study
THU	22 Oct-26	3.3	Supervised Learning	09:00	12:00	NTU@One-North
THU	22 Oct-26	3.4	Supervised Learning - Advanced	13:00	16:00	NTU@One-North
FRI	23 Oct-26		Self Study	09:00	12:00	Self Study
SAT	24 Oct-26					
SUN	25 Oct-26					
MON	26 Oct-26	C3.2	Coaching	09:00	12:00	NTU@One-North
MON	26 Oct-26		Self Study	13:00	16:00	Self Study
TUE	27 Oct-26	3.5	Unsupervised Learning	09:00	12:00	NTU@One-North
TUE	27 Oct-26		Self Study	13:00	16:00	Self Study
WED	28 Oct-26	3.6	Time Series Data and Forecasting	09:00	12:00	NTU@One-North
WED	28 Oct-26		Self Study	13:00	16:00	Self Study
THU	29 Oct-26	C3.3	Coaching	09:00	12:00	NTU@One-North
THU	29 Oct-26	3.7	Neural Network & Deep Learning	13:00	16:00	NTU@One-North
FRI	30 Oct-26	CW	Career Workshop #4 - Crafting the Perfect Resume: Telling Your Unique Story	09:00	12:00	NTU@One-North
SAT	31 Oct-26					
SUN	1 Nov-26					

Date	Unit	Lesson Title	Start	End	Mode of Delivery	
MON	2 Nov-26	3.8	Computer Vision (CV)	09:00	12:00	NTU@One-North
MON	2 Nov-26		Self Study	13:00	16:00	Self Study
TUE	3 Nov-26	C3.4	Coaching	09:00	12:00	NTU@One-North
TUE	3 Nov-26		Self Study	13:00	16:00	Self Study
WED	4 Nov-26	3.9	Natural Language Processing (NLP)	09:00	12:00	NTU@One-North
THU	5 Nov-26	3.10	NLP - Advanced	09:00	12:00	NTU@One-North
THU	5 Nov-26	C3.5	Coaching	13:00	16:00	NTU@One-North
FRI	6 Nov-26		Module Assessment + Self Study	09:00	12:00	Self Study
SAT	7 Nov-26					
SUN	8 Nov-26					
C4: AWS CERTIFIED AI PRACTITIONER			Start	End	Mode of Delivery	
MON	9 Nov-26	PH	Deepavali Public Holiday			
TUE	10 Nov-26		AWS Certified AI Practitioner	09:00	16:00	NTU@One-North
WED	11 Nov-26		AWS Certified AI Practitioner	09:00	16:00	NTU@One-North
THU	12 Nov-26		AWS Certified AI Practitioner	09:00	12:00	NTU@One-North
C5: TRANSFORMING BUSINESS WITH GPT: HANDS-ON GENERATIVE AI APPLICATIONS			Start	End	Mode of Delivery	
FRI	13 Nov-26		Generative AI	09:00	12:00	NTU@One-North
SAT	14 Nov-26					
SUN	15 Nov-26					
MON	16 Nov-26		Generative AI	09:00	16:00	NTU@One-North
TUE	17 Nov-26		Generative AI	09:00	16:00	NTU@One-North
C6: FULL STACK PROGRAMMING AND DEPLOYMENT OF AI SOLUTIONS			Start	End	Mode of Delivery	
WED	18 Nov-26		Deployment I: Python Flask, SQLite and HTML, CSS	09:00	12:00	NTU@One-North
WED	18 Nov-26		Deployment I: API Programming (replicate, google suite, openAI)	13:00	16:00	NTU@One-North
THU	19 Nov-26		Deployment I: Cloud AWS / Render / Google Clab / React / UI UX	09:00	12:00	NTU@One-North
FRI	20 Nov-26	CW	Career Workshop #5 - Ace the Interview and Beyond: From Preparation to Next Steps	09:00	12:00	NTU@One-North
SAT	21 Nov-26					
SUN	22 Nov-26					
MON	23 Nov-26		Deployment I: Project Management/Agile/Scrum/Monday.com & Web3 Solidity/Remix/Infura/Etherscan	09:00	16:00	NTU@One-North
TUE	24 Nov-26		Deployment II: Python Flask, SQLite and HTML, CSS	09:00	12:00	NTU@One-North
TUE	24 Nov-26		Deployment II: API Programming (replicate, google suite, openAI)	13:00	16:00	NTU@One-North
WED	25 Nov-26		Deployment II: Cloud AWS / Render / Google Clab / React / UI UX	09:00	12:00	NTU@One-North
THU	26 Nov-26		Deployment II : Project Management/Agile/Scrum/Monday.com & Capstone	09:00	16:00	NTU@One-North
FRI	27 Nov-26					
SAT	28 Nov-26					
SUN	29 Nov-26					

- All lecture will be in person 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