

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	1 Mar-27				
		Welcome + Introduction + Onboarding	09:00	12:00	NTU@One-North
TUE	2 Mar-27	1.1			NTU@One-North
		Intro to Data Science	09:00	12:00	NTU@One-North
TUE	2 Mar-27				Self-Paced Learning
		Assessment + Assignment + Pre-work	13:00	16:00	Self-Paced Learning
WED	3 Mar-27	1.2			NTU@One-North
		Introduction to Database	09:00	12:00	NTU@One-North
WED	3 Mar-27				Self-Paced Learning
		Assessment + Assignment + Pre-work	13:00	16:00	Self-Paced Learning
THU	4 Mar-27	1.3			NTU@One-North
		SQL Basic - DDL	09:00	12:00	NTU@One-North
THU	4 Mar-27	C1.1			NTU@One-North
		Coaching	13:00	16:00	NTU@One-North
FRI	5 Mar-27	CW			NTU@One-North
		Career Workshop #1 - Uncover Your Next Path: Career Discovery for Mid-Career Changers	09:00	12:00	NTU@One-North
FRI	5 Mar-27				Self-Paced Learning
		Assessment + Assignment + Pre-work	13:00	16:00	Self-Paced Learning
SAT	6 Mar-27				
SUN	7 Mar-27				
MON	8 Mar-27	1.4			NTU@One-North
		SQL Basic - DML	09:00	12:00	NTU@One-North
MON	8 Mar-27				Self-Paced Learning
		Assessment + Assignment + Pre-work	13:00	16:00	Self-Paced Learning
TUE	9 Mar-27	1.5			NTU@One-North
		SQL Advanced	09:00	12:00	NTU@One-North
TUE	9 Mar-27				Self-Paced Learning
		Assessment + Assignment + Pre-work	13:00	16:00	Self-Paced Learning
WED	10 Mar-27	PH			
		Hari Raya Puasa			
THU	11 Mar-27	C1.2			NTU@One-North
		Coaching	09:00	12:00	NTU@One-North
THU	11 Mar-27	1.6			NTU@One-North
		Introduction to Numpy	13:00	16:00	NTU@One-North
FRI	12 Mar-27	1.7			NTU@One-North
		Introduction to Pandas	09:00	12:00	NTU@One-North
FRI	12 Mar-27				Self-Paced Learning
		Assessment + Assignment + Pre-work	13:00	16:00	Self-Paced Learning
SAT	13 Mar-27				
SUN	14 Mar-27				
MON	15 Mar-27	C1.3			NTU@One-North
		Coaching	09:00	12:00	NTU@One-North
MON	15 Mar-27				Self-Paced Learning
		Assessment + Assignment + Pre-work	13:00	16:00	Self-Paced Learning
TUE	16 Mar-27	1.8			NTU@One-North
		Exploratory Data Analysis (EDA) Basic	09:00	12:00	NTU@One-North
TUE	16 Mar-27				Self-Paced Learning
		Assessment + Assignment + Pre-work	13:00	16:00	Self-Paced Learning
WED	17 Mar-27	1.9			NTU@One-North
		EDA Advanced	09:00	12:00	NTU@One-North
WED	17 Mar-27				Self-Paced Learning
		Assessment + Assignment + Pre-work	13:00	16:00	Self-Paced Learning
THU	18 Mar-27	1.10			NTU@One-North
		Data Visualization	09:00	12:00	NTU@One-North
THU	18 Mar-27	C1.4			NTU@One-North
		Coaching	13:00	16:00	NTU@One-North
FRI	19 Mar-27				Self-Paced Learning
		Module Assessment + Self-Paced Learning	09:00	12:00	Self-Paced Learning
FRI	19 Mar-27				
SAT	20 Mar-27				
SUN	21 Mar-27				
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	22 Mar-27	2.1			NTU@One-North
		Introduction to Big Data and Data Engineering	09:00	12:00	NTU@One-North
MON	22 Mar-27				Self-Paced Learning
		Assessment + Assignment + Pre-work	13:00	16:00	Self-Paced Learning
TUE	23 Mar-27	2.2			NTU@One-North
		Data Architecture	09:00	12:00	NTU@One-North
TUE	23 Mar-27	CW			NTU@One-North
		Career Workshop #2 - Stand Out: Building a Powerful Professional Brand	13:00	16:00	NTU@One-North
WED	24 Mar-27	C2.1			NTU@One-North
		Coaching	09:00	12:00	NTU@One-North
WED	24 Mar-27				Self-Paced Learning
		Assessment + Assignment + Pre-work	13:00	16:00	Self-Paced Learning
THU	25 Mar-27	2.3			NTU@One-North
		Data Encoding and Data Flow	09:00	12:00	NTU@One-North
THU	25 Mar-27	2.4			NTU@One-North
		Data Extraction and Web Scraping	13:00	16:00	NTU@One-North
FRI	26 Mar-27	PH			
		Good Friday			
SAT	27 Mar-27				
SUN	28 Mar-27				
MON	29 Mar-27	C2.2			NTU@One-North
		Coaching	09:00	12:00	NTU@One-North
MON	29 Mar-27				Self-Paced Learning
		Assessment + Assignment + Pre-work	13:00	16:00	Self-Paced Learning

	Date	Unit	Lesson Title	Start	End	Mode of Delivery
TUE	30 Mar-27	2.5	Data Warehouse	09:00	12:00	NTU@One-North
TUE	30 Mar-27		Assessment + Assignment + Pre-work	13:00	16:00	Self-Paced Learning
WED	31 Mar-27	2.6	Data Pipelines	09:00	12:00	NTU@One-North
WED	31 Mar-27		Assessment + Assignment + Pre-work	13:00	16:00	Self-Paced Learning
THU	1 Apr-27	C2.3	Coaching	09:00	12:00	NTU@One-North
THU	1 Apr-27	2.7	Data Orchestration and Testing	13:00	16:00	NTU@One-North
FRI	2 Apr-27		Assessment + Assignment + Pre-work	09:00	12:00	Self-Paced Learning
SAT	3 Apr-27					
SUN	4 Apr-27					
MON	5 Apr-27	2.8	Out of Core/Memory Processing	09:00	12:00	NTU@One-North
MON	5 Apr-27		Assessment + Assignment + Pre-work	13:00	16:00	Self-Paced Learning
TUE	6 Apr-27	C2.4	Coaching	09:00	12:00	NTU@One-North
TUE	6 Apr-27		Assessment + Assignment + Pre-work	13:00	16:00	Self-Paced Learning
WED	7 Apr-27	2.9	Distributed Batch Processing and Transformation	09:00	12:00	NTU@One-North
WED	7 Apr-27		Assessment + Assignment + Pre-work	13:00	16:00	Self-Paced Learning
THU	8 Apr-27	2.10	Stream Processing and Analytics	09:00	12:00	NTU@One-North
THU	8 Apr-27	C2.5	Coaching	13:00	16:00	NTU@One-North
FRI	9 Apr-27		Module Assessment + Self-Paced Learning	09:00	12:00	Self-Paced Learning
SAT	10 Apr-27					
SUN	11 Apr-27					
MON	12 Apr-27		Project	09:00	12:00	Self-Paced Learning
TUE	13 Apr-27		Project	09:00	12:00	Self-Paced Learning
WED	14 Apr-27		Project	09:00	12:00	Self-Paced Learning
THU	15 Apr-27		Project	09:00	12:00	Self-Paced Learning
FRI	16 Apr-27	PP	Project Presentation	09:00	12:00	NTU@One-North
SAT	17 Apr-27					
SUN	18 Apr-27					
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 Apr-27	3.1	Introduction to Machine Learning	09:00	12:00	NTU@One-North
MON	19 Apr-27		Self-Paced Learning	13:00	16:00	Self-Paced Learning
TUE	20 Apr-27	3.2	Probability and Statistics for ML	09:00	12:00	NTU@One-North
TUE	20 Apr-27		Self-Paced Learning	13:00	16:00	Self-Paced Learning
WED	21 Apr-27	C3.1	Coaching	09:00	12:00	NTU@One-North
THU	22 Apr-27	3.3	Supervised Learning	09:00	12:00	NTU@One-North
THU	22 Apr-27	3.4	Supervised Learning - Advanced	13:00	16:00	NTU@One-North
FRI	23 Apr-27	CW	Career Workshop #3 - Connecting with Purpose: Networking for Career Transitions	09:00	12:00	NTU@One-North
FRI	23 Apr-27		Self-Paced Learning	13:00	16:00	Self-Paced Learning
SAT	24 Apr-27					
SUN	25 Apr-27					
MON	26 Apr-27	C3.2	Coaching	09:00	12:00	NTU@One-North
MON	26 Apr-27		Self-Paced Learning	13:00	16:00	Self-Paced Learning
TUE	27 Apr-27	3.5	Unsupervised Learning	09:00	12:00	NTU@One-North
TUE	27 Apr-27		Self-Paced Learning	13:00	16:00	Self-Paced Learning
WED	28 Apr-27	3.6	Time Series Data and Forecasting	09:00	12:00	NTU@One-North
THU	29 Apr-27	C3.3	Coaching	09:00	12:00	NTU@One-North
THU	29 Apr-27	3.7	Neural Network & Deep Learning	13:00	16:00	NTU@One-North
FRI	30 Apr-27					
SAT	1 May-27	PH	Labour Day			
SUN	2 May-27					
MON	3 May-27	3.8	Computer Vision (CV)	09:00	12:00	NTU@One-North
MON	3 May-27		Self-Paced Learning	13:00	16:00	Self-Paced Learning
TUE	4 May-27	C3.4	Coaching	09:00	12:00	NTU@One-North
TUE	4 May-27		Self-Paced Learning	13:00	16:00	Self-Paced Learning
WED	5 May-27	3.9	Natural Language Processing (NLP)	09:00	12:00	NTU@One-North



Date	Unit	Lesson Title	Start	End	Mode of Delivery
WED	5 May-27	Self-Paced Learning	13:00	16:00	Self-Paced Learning
THU	6 May-27	3.10 Transformers, Attention & GenAI	09:00	12:00	NTU@One-North
THU	6 May-27	C3.5 Coaching	13:00	16:00	NTU@One-North
FRI	7 May-27	Self-Paced Learning	13:00	16:00	Self-Paced Learning
FRI	7 May-27	Module Assessment + Self-Paced Learning	13:00	16:00	Self-Paced Learning
SAT	8 May-27				
SUN	9 May-27				
C4: AWS CERTIFIED AI PRACTITIONER			Start	End	Mode of Delivery
MON	10 May-27	AWS Certified AI Practitioner	09:00	16:00	NTU@One-North
TUE	11 May-27	AWS Certified AI Practitioner	09:00	16:00	NTU@One-North
WED	12 May-27	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
THU	13 May-27	Generative AI	09:00	12:00	NTU@One-North
THU	13 May-27	CW Career Workshop #4 - Crafting the Perfect Resume: Telling Your Unique Story	13:00	16:00	NTU@One-North
FRI	14 May-27	Generative AI	09:00	12:00	NTU@One-North
SAT	15 May-27				
SUN	16 May-27				
MON	17 May-27	PH Hari Raya Haji			
TUE	18 May-27	Generative AI	09:00	16:00	NTU@One-North
WED	19 May-27	Generative AI	09:00	12:00	NTU@One-North
C6: FULL STACK PROGRAMMING AND DEPLOYMENT OF AI SOLUTIONS			Start	End	Mode of Delivery
WED	19 May-27	Deployment I: Application Frameworks and Workflow Integration	13:00	16:00	NTU@One-North
THU	20 May-27	PH Vesak Day			
FRI	21 May-27	Deployment I: API Architecture, Design Contracts and Engineering Practices	09:00	12:00	NTU@One-North
SAT	22 May-27				
SUN	23 May-27				
MON	24 May-27	Deployment I: Development Environment, Cloud Tools and Best Practices	09:00	12:00	NTU@One-North
MON	24 May-27	Deployment I: UI/UX Design and Application Build Sprint	13:00	16:00	NTU@One-North
TUE	25 May-27	Deployment I: UI/UX Design and Application Build Sprint	09:00	12:00	NTU@One-North
TUE	25 May-27	Deployment II: API Integration, Data Retrieval and Application Build	13:00	16:00	NTU@One-North
WED	26 May-27	Deployment II: Cloud Deployment, Testing and Launch	09:00	12:00	NTU@One-North
WED	26 May-27	Deployment II: Agentic Project Delivery (Agile/Scrum/Tooling)	13:00	16:00	NTU@One-North
THU	27 May-27	Deployment II: Capstone Work Sprint	09:00	16:00	NTU@One-North
FRI	28 May-27	CW Career Workshop #5 - Ace the Interview and Beyond: From Preparation to Next Steps	09:00	12:00	NTU@One-North
SAT	29 May-27				
SUN	30 May-27				
• 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					