Data Science Modelling Project

Session No#	Session mode	Topic	Week end – Day #	Duration Hrs
1	EL-Async	• Project Planning and Agile Project Environment • Agile Project Management • Project Management Life Cycle • Agile Principles	Before Sync Session	2.5
2	MS -Sync	Overview of task 1 - data collection and development of fraud detection model.	1-1	3
3	MS -Async	Implementation of task 1 - data collection and development of fraud detection model.	Before the next Sync– Mentoring session	2
4	MS -Async	Additional Practice- Complete pending tasks		5
5	EL-Async	• Requirement Elicitation • Interviews & Brainstorming • Observation & Experiments • Process Models	Before Sync Session	2.5
6	MS- Sync	Review and feedback on task 1 Discussion on task – 2 provision and configure Azure ML services for fraud detection.	1-2	3
7	MS- Async	Implementation of the task – 2 provision and configure Azure ML services for fraud detection.	Before the next Sync– Mentoring session	2
8	MS -Async	Additional Practice- Complete pending tasks		5
9	EL-Async	• Data Preparation • Data Analysis • Data Cleaning • Questions to guide data cleaning. • Statistical Analysis • Selection of ML models	Before Sync Session	2.5
10	MS- Sync	Review of the task – 2 provision and configure Azure ML services for fraud detection. Discussion on task 2 – develop the fraud detection service.	2-3	3
11	MS -Async	Implementation of task 2 – develop the fraud detection service.	Before the next Sync– Mentoring session	2
12	MS -Async	Additional Practice- Complete pending tasks		5
13	EL-Async	• Project Communication • Prioritize and Categorize stake holders. • Cross-functional stake holders • Project Meeting • Project report	Before Sync Session	2.5
14	MS -Sync	Review of task 2 – develop the fraud detection service. Discussion on task 3 - perform sentiment analysis on customer reviews.	2-4	3

15	MS -Async	Performing task 3 - sentiment analysis on customer reviews.	Before the next Sync–Mentoring session	2
16	MS -Async	Additional Practice- Complete pending tasks		5
17	MS- Sync	Review of task 3 - sentiment analysis on customer reviews. Discussion on task 4 - enhance customer engagement and satisfaction.	3-5	3
18	MS- Async	Implementation of task 4 - enhance customer engagement and satisfaction.	Before the next Sync–Mentoring session	2
19	MS -Async	Additional Practice- Complete pending tasks		5
20	MS- Sync	Review of task 4 - enhance customer engagement and satisfaction. Overview of task 5 – Collect and pre-process text data for analysis.	3-6	3
21	MS -Async	Implementation task 5 – Collect and pre-process text data for analysis.	Before the next Sync–Mentoring session	2
22	MS -Async	Additional Practice- Complete pending tasks		5
23	MS- Sync	Review of task 5 – Collect and pre-process text data for analysis. Discussion on task 5 - Utilize Azure AI-Language services for text insights.	4-7	3
24	MS -Async	Implementation of task 5 - Utilize Azure AI-Language services for text insights.	Before the next Sync–Mentoring session	2
25	MS -Async	Additional Practice- Complete pending tasks		5
26	MS- Sync	Review of task 5 - utilize Azure AI-Language services for text insights. Discussion on task 6 - implement an optical character recognition system to extract text from handwritten documents.	4-8	3
27	MS -Async	Implementation of task 6 - implement an optical character recognition system to extract text from handwritten documents.	Before the next Sync–Mentoring session	2
28	MS -Async	Additional Practice- Complete pending tasks		5
29	MS- Sync	Review of task 6 - implement an optical character recognition system to extract text from handwritten documents.	5-9	3

		Discussion on task 7 - design of FAQ chatbot.		
30	MS -Async	Performing task 7 - design of FAQ chatbot.	Before the next Sync–Mentoring session	2
31	MS -Async	Additional Practice- Complete pending tasks		5
32	MS- Sync	Review of task 7 - design of FAQ chatbot. Overview of task 7 – implementation of FAQ chatbot.	5-10	3
33	MS -Async	Implementation of task 7 – implementation of FAQ chatbot.	Before the next Sync–Mentoring session	2
34	MS -Async	Additional Practice- Complete pending tasks		5
35	MS- Sync	Review of task 7 – implementation of FAQ chatbot. Discussion on task 8 - create a knowledge base for common queries.	6-11	3
36	MS -Async	Performing task 8 - create a knowledge base for common queries.	Before the next Sync–Mentoring session	2
37	MS -Async	Additional Practice- Complete pending tasks		5
38	MS- Sync	Review task 8 - create a knowledge base for common queries. Discussion on task 9 - Design, test and deploy the chatbot to answer customer queries.	6-12	3
39	MS- Async	Implementation of task 9 - Design, test and deploy the chatbot to answer customer queries.	Before assessment	2
40	MS -Async	Additional Practice- Complete pending tasks and submit the Project Report		5
41	AS-Sync	Summative Assessment (Per learner)	7-13	30 min