Set the Goals				
Define the output you want to create in a a couple of sentences	Add the schedule			
The goal is to create a customer segmentation model using K-Means clustering on online				
retail data. The output will include a clustering model, visualizations of customer segments, and a short report describing the characteristics of each segment for business insights.	Add the Schedule Below			
Add the skills that you want to learn by the end of the menternship	Stage	Add the deadline by when you want to complete the corresponding steps	Tick when completed	
1 Data Cleaning and preprocessing. 2 Applying K-Means clustering for customer segmentat	Start of the Menternship	September 26, 2025	\checkmark	
3 Creating business-friendly visualiz 4 Evaluating clustering performance using Elbow Meth	Complete the Workplan and Submitted	September 27, 2025	✓	
Add the key learnings you want	Component 2	September 28, 2025		
1 How to extract useful insights from customer purchasing data.	Component 3	September 29, 2025		
2 Understanding clustering and its applications in real-world businesses.	Component 4	September 30, 2025		
3 How customer segmentation supports marketing strategies and decision-making.	Component 5	October 1, 2025		
	Completed the Menternship	October 2, 2025		
	Recieved the Feedback over email	October 5, 2025		
	Submitted the Final Draft	October 6, 2025		
Major Constraints	Add the Schedule for Mentor Ses	sions you want to attend		
Add the constraints you face in working on the tasks mentioned in the menternship (for example: data cleaning, creating a content calendar)	Stage Date (Double click on the cell below and add a date) Tick when completed			
1 Data cleaning may be time-consuming if the dataset contains many missing or incc	Mentor Session 1	September 28, 2025		
	One on One Call (Book one when you have speci	fic queries)		
2 Selecting the right number of clusters is challenging and requires testing multiple a	Mentor Session 2			
	Mentor Session 3			
3 Limited prior experience with ML libraries (Pandas, Scikit-learn, Seaborn), so I'll nec	One on One Call (Book one when you have speci	fic queries)		
	Mentor Session 4			
Find resources on your own that can help you and add below				
1 Scikit-learn documentation for K-N 2 Matplotlib/Seaborn official guides for data visualization.		Do not alter		
Blogs/articles explaining Elbow Mc4 StatQuest with Josh Starmer – K-Means Clustering clearly	explained, Link - https://www.yout	u You need to fill		
5 K-Means Clustering Algorithm with 6 How to Compute Silhouette Coefficient – K Means Cluster		···		