Set the Goals

1

Define the output you want to create in a couple of sentences

Build a predictive model using Python to forecast hourly traffic volumes at road junctions using historical data. Apply data analysis and modeling techniques to deliver accurate and actionable insights.

Add the skills that you want to learn by the end of the menternship

1. Python	2. Data Visualisation
3. Data Analysis	4. Modeling techniques

Add the key learnings you want

1. Learn how to create graphs, charts are easily understandable.
2. Learn how to Analyse huge datasets with different techniques.
3. Create a presentation which is visually attractive.

Major Constraints

2

Add the constraints you face in working on the tasks mentioned in the menternship (for example: data cleaning, creating a content calendar)

1. Analyzing and presenting traffic data in an understandable manner.

2. Selecting a model that balances accuracy with real-time prediction efficiency for hourly traffic forecasts.

3. Challenges in managing incomplete data and irregular time series entries.

Find resources on your own that can help you and add below

1. Working with missing data	2. How to make a professional presentation?
3. Introduction to Matplotlib	4. Time Series Forecasting
5. Traffic Prediction Using Machine Learning	6. Accuracy Metrics in ML

Add the Schedule

3

Add the Schedule Below

Stage	Add the deadline by when you want to complete the corresponding steps	Tick when completed
Start of the Menternship	May 12, 2025	☐
Complete the Workplan and Submitted	May 18, 2025	☐
		☐
Component 2	May 21, 2025	
Component 3	May 24, 2025	☐
Component 4	May 26, 2025	☐
Component 5	May 28, 2025	☐
Completed the Mentership	May 31, 2025	☐
Recieved the Feedback over email	June 5, 2025	☐
Submitted the Final Draft	June 22, 2025	☐

Add the Schedule for Mentor Sessions you want to attend

Stage	Date (Add dates in blank spaces)	Tick when completed
Mentor Session 1	May 18, 2025	☐
One on One Call (Book one when you have specific queries)		☐
Mentor Session 2	May 25, 2025	☐
Mentor Session 3	June 8, 2025	☐
One on One Call (Book one when you have specific queries)		☐
Mentor Session 4		☐

	Do not Alter
	You need to fill