

## **Set the Goals**

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

A complete end-to-end data science project that identifies the key factors affecting home insurance premium pricing using Python.

The output will include EDA, feature analysis, predictive modeling, insights, and a final report/dashboard.

**1**

### **Add the skills that you want to learn by the end of the mentorship**

- |   |   |
|---|---|
| 1. Data cleaning and preprocessing techniques | 2. Exploratory Data Analysis (EDA) using Python   |
| 3. Building and evaluating regression models  | 4. Presenting results using reports or dashboards |

### **Add the key learnings you want**

- |  |
|--|
| 1. How insurance companies determine premium pricing                 |
| 2. How to analyse risk factors using data science methods            |
| 3. How to interpret model output and convert it to business insights |

**3**

## **Major Constraints**

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

- |  |
|--|
| 1. Large dataset may require time for cleaning and understanding |
| 2. Understanding new variables related to insurance risk         |
| 3. Limited experience with advanced machine learning models      |

**2**

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

- |   |  |
|---|--|
| 1. Sample home insurance datasets (Kaggle)                    | 2. Tutorials on EDA, regression modeling in Python         |
| 3. Documentation for pandas, seaborn/matplotlib, scikit-learn | 4. Articles or research papers on insurance pricing models |
| 5. Real-world examples of underwriting and risk assessment    | 6  |

## Add the schedule

### Add the Schedule Below

Stage	Add the deadline by when you want to complete the corresponding steps	Tick when completed
Start of the Menternship	December 9, 2025	<input checked="" type="checkbox"/>
Complete the Workplan and Submitted	December 10, 2025	<input checked="" type="checkbox"/>
Component 2	December 11, 2025	<input checked="" type="checkbox"/>
Component 3	December 12, 2025	<input checked="" type="checkbox"/>
Component 4	December 13, 2025	<input checked="" type="checkbox"/>
Component 5	December 14, 2025	<input checked="" type="checkbox"/>
Completed the Menternship	December 15, 2025	<input checked="" type="checkbox"/>
Recieved the Feedback over email	December 16, 2025	<input checked="" type="checkbox"/>
Submitted the Final Draft	December 17, 2025	<input checked="" type="checkbox"/>

### Add the Schedule for Mentor Sessions you want to attend

Stage	Date (Double click on the cell below and add a date)	Tick when completed
Mentor Session 1	December 7, 2025	<input checked="" type="checkbox"/>
One on One Call (Book one when you have specific queries)		<input checked="" type="checkbox"/>
Mentor Session 2	December 19, 2025	<input checked="" type="checkbox"/>
Mentor Session 3	December 21, 2025	<input checked="" type="checkbox"/>
One on One Call (Book one when you have specific queries)		<input checked="" type="checkbox"/>
Mentor Session 4	January 4, 2026	<input checked="" type="checkbox"/>
