

## 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.

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

- |   |   |
|---|---|
| 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

## Major Constraints

### Add the constraints you face in working on the tasks mentioned in the menternship (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

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

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|---|--|
| 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"/> |

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