Sprint 2 Deliverables:

Design Section

- Page 2

| 1. Select Model |
| 2. Settings |
| 3. Run |

Select Model

| Naive Bayes ▼ |

Linear Regression
Linear Discriminant Analysis
k-Nearest Neighbors
Quadratic Discriminant Analysis
Simple Vector Machine

Browse Community

| 1. Select Model |
| 2. Settings |
| 3. Run |

<u>Naive Bayes</u> Settings

Include Outliers
☐

Set Min

Set Max

Information TBD

Information TBD

Running <u>Naive Bayes</u> on <u>test.csv</u>

<u>Results</u>

Accuracy: 96.7777 %

Standard Deviation: 8.737

Variance: 2.01

$$\begin{bmatrix} 50 & 0 & 0 \\ 0 & 47 & 3 \\ 0 & 3 & 47 \end{bmatrix}$$

- Page 3

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Username

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Gaussian NB

★★★★★

⚑ 547   ▢ 43

Gaussian Naive Bayes (GNB) is a classification technique used in Machine Learning (ML) based on the probabilistic approach and Gaussian distribution. Gaussian Naive Bayes assumes that each parameter (also called features or predictors) has an independent capacity of predicting the output variable.
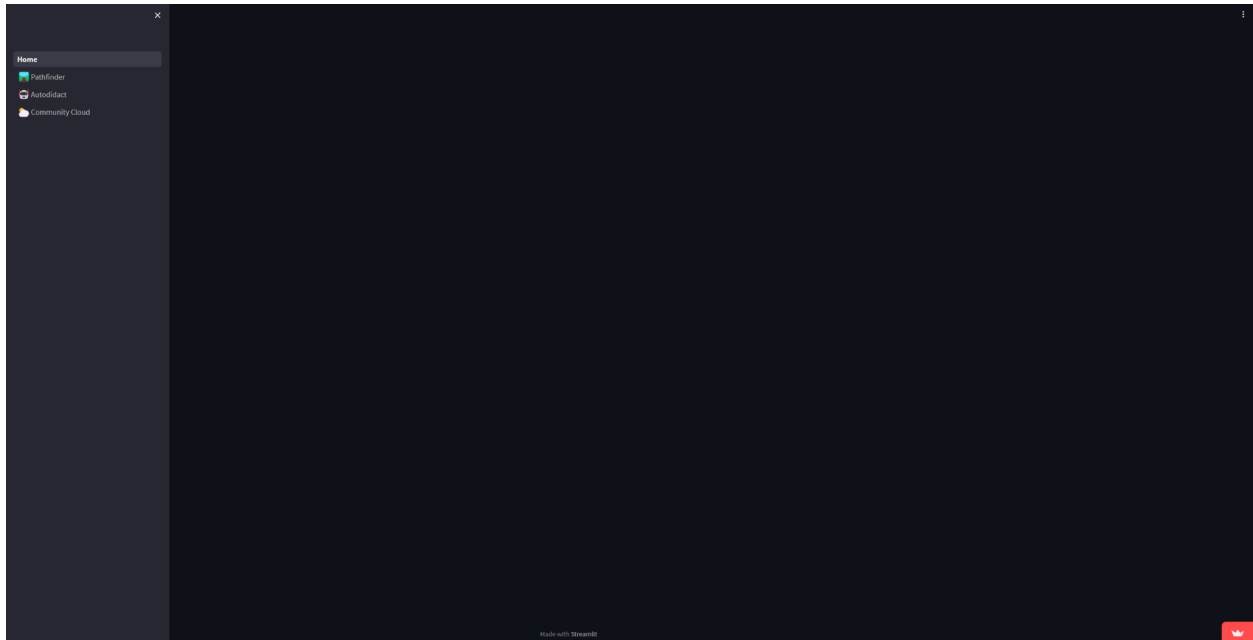
↑

HMM

★★★★★

⚑ 210   ▢ 15

A Hidden Markov Model (HMM) is a statistical model which is also used in machine learning. It can be used to describe the evolution of observable events that depend on internal factors, which are not directly observable.
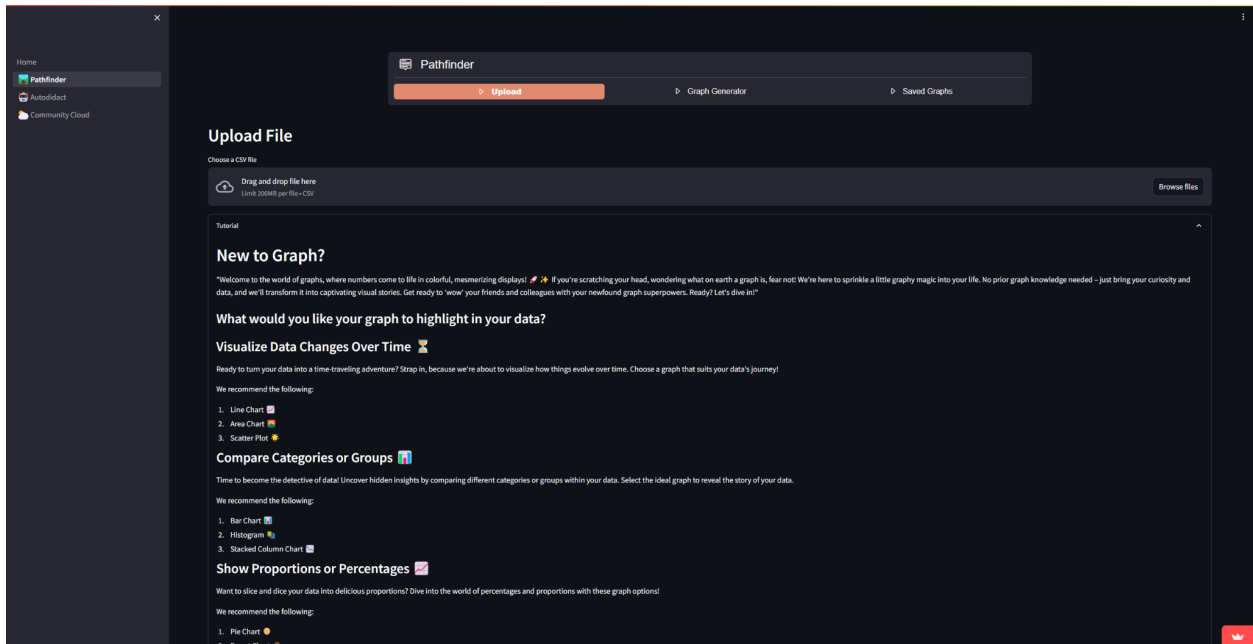
↑

Implementation Section
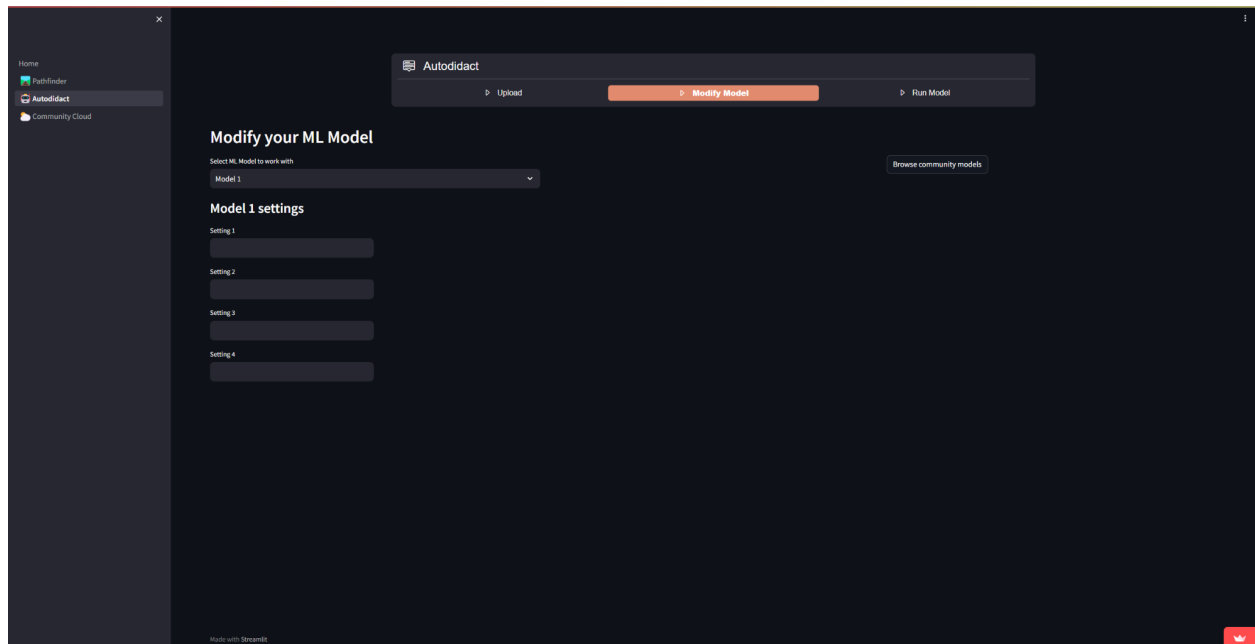Access the full website using this link: https://mlsandbox.streamlit.app/
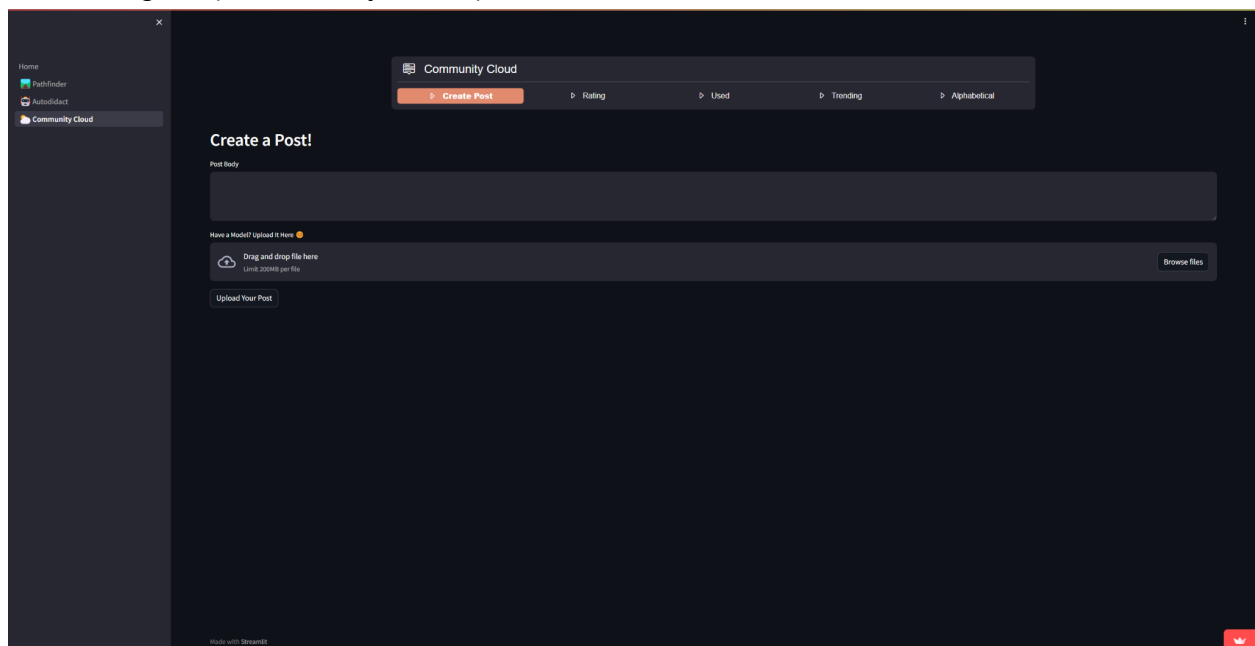
- Home page

- Page 1 (Pathfinder page)

- Page 2 (Autodidact page)

- Page 3 (Community Cloud)

Our code base is available in the ML_Sandbox folder. The code for all the 3 pages we implemented is available inside the pages folder. Page 1 code is available in Pathfinder.py. Page 2 code is available in Autodidact.py. Page 3 code is available in Community Cloud.py.