

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

Naive Bayes Settings

Include Outliers

☐

Set Min

Set Max

Information TBD

Information TBD

1. Select Model

2. Settings

3. Run

Running Naive Bayes on test.csv

Results

Accuracy: 96.7777 %

Standard Deviation: 0.737

Variance: 2.01

50

0

0

0

47


3


0


3

47

- Page 3





 Username

+ Create Post

Rating

Used

Trending

Alphabetical

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

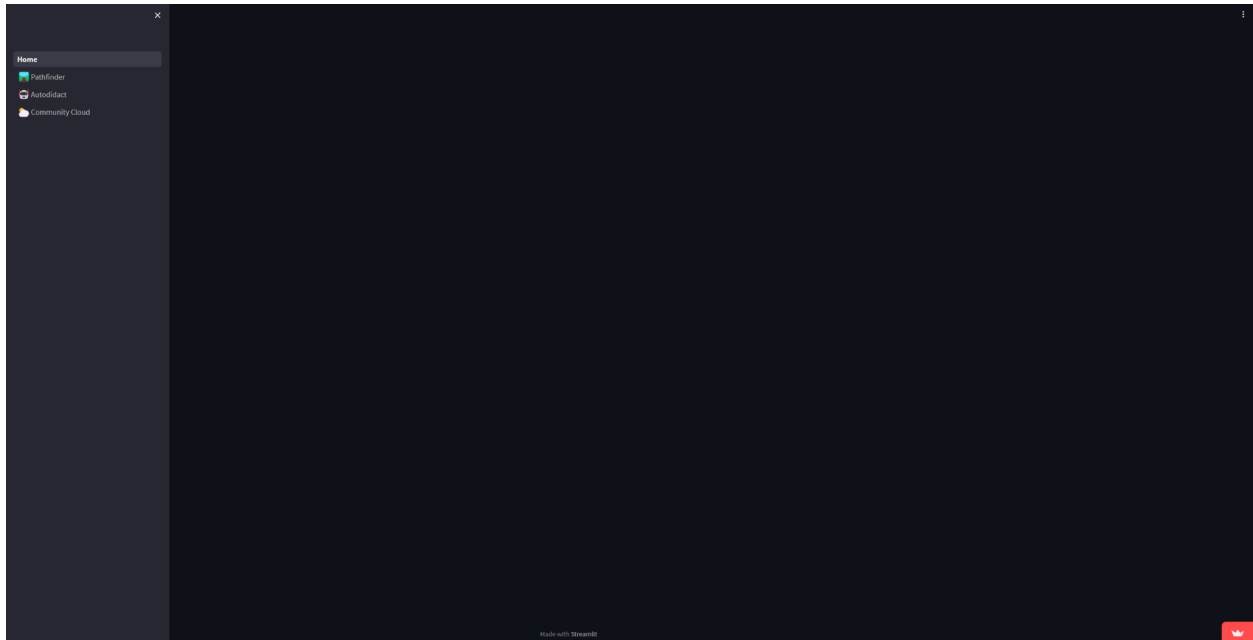
A Hidden Markov Model (HMM) is a statistical model which is also used in machine learning. It can be used to describe the evolution of observable events that depend on internal factors, which are not directly observable.

↑

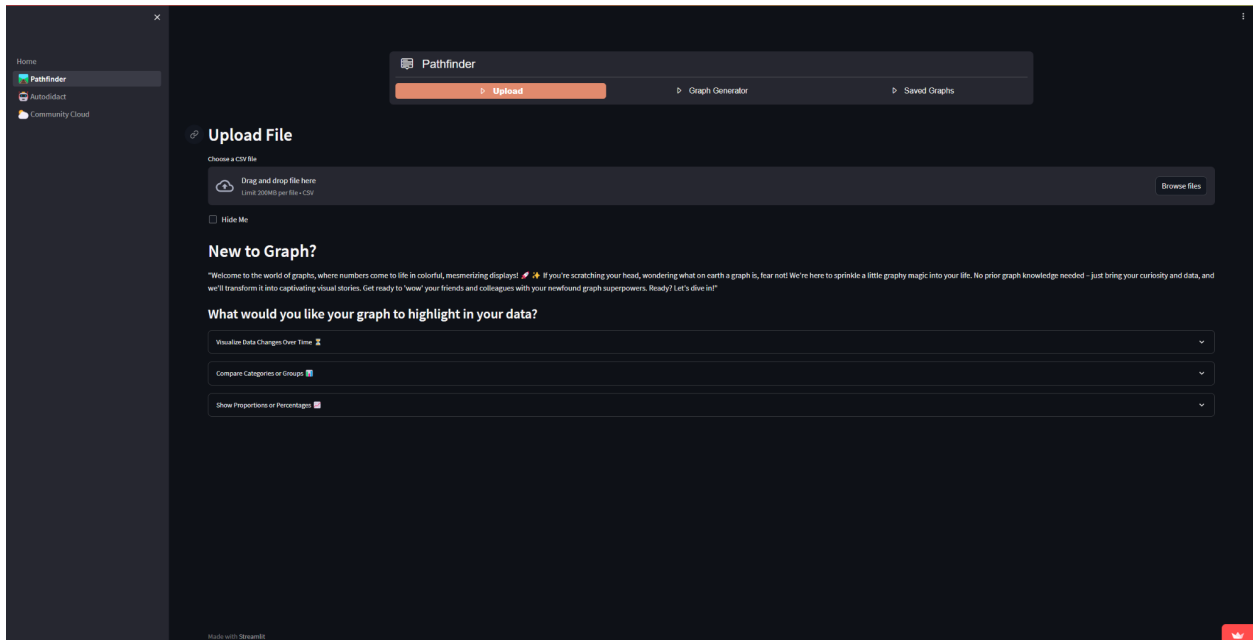
Implementation Section

Access the full website using this link: <https://mlsandbox.streamlit.app/>

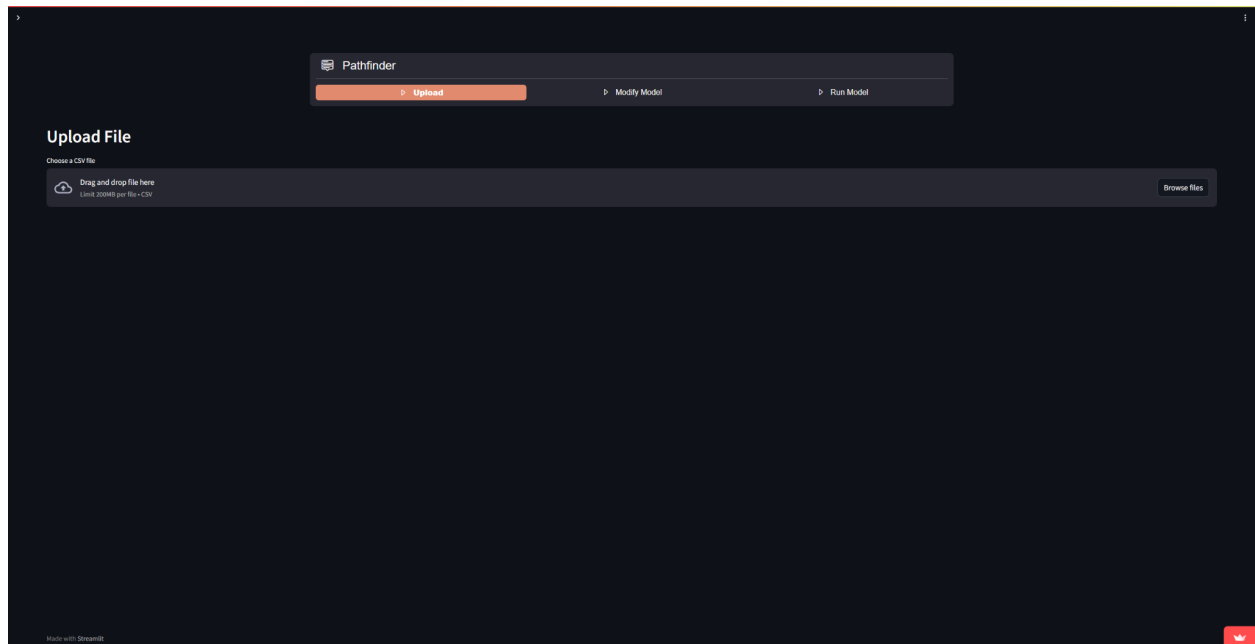
- Home page



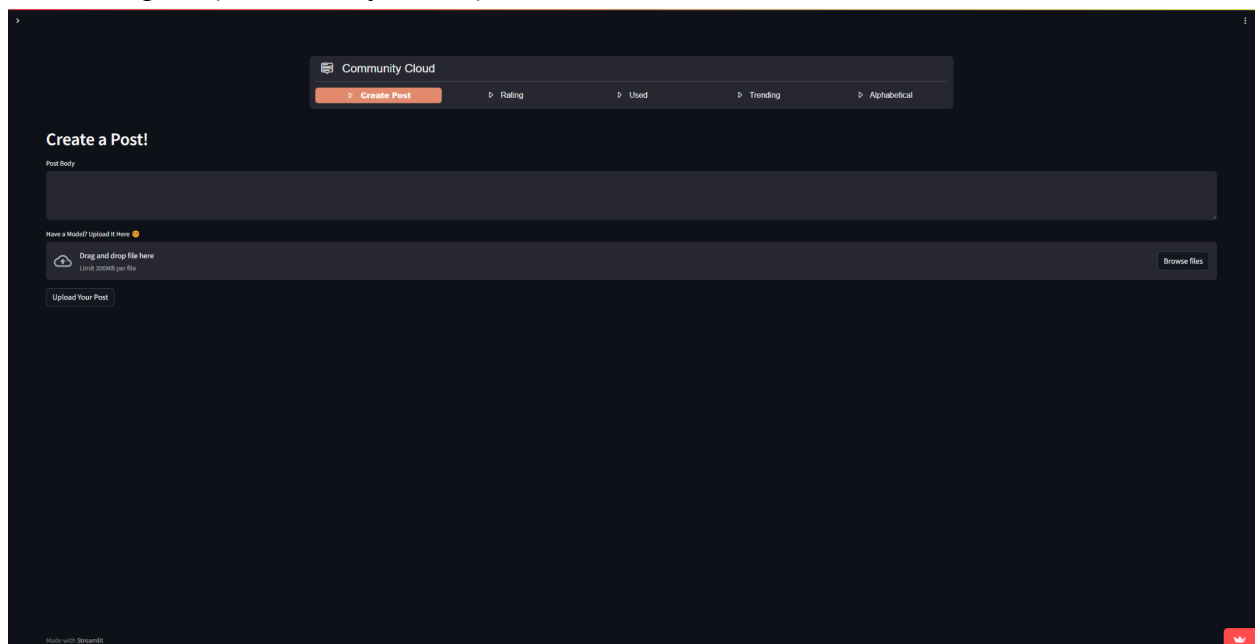
- Page 1 (Pathfinder page)



- 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.