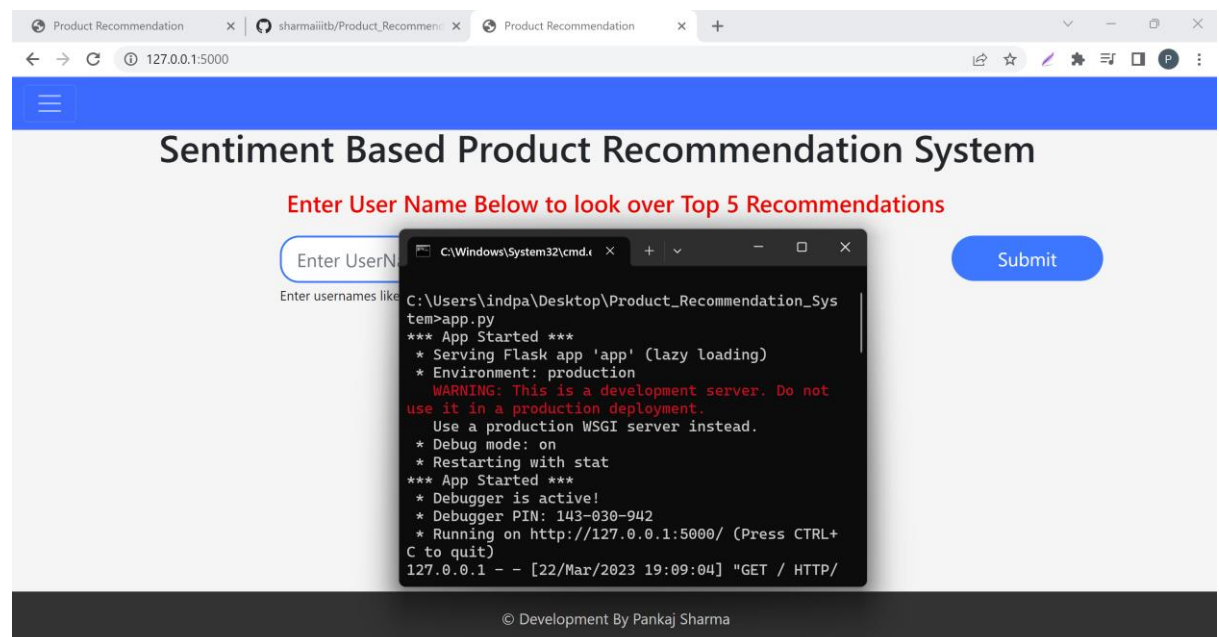
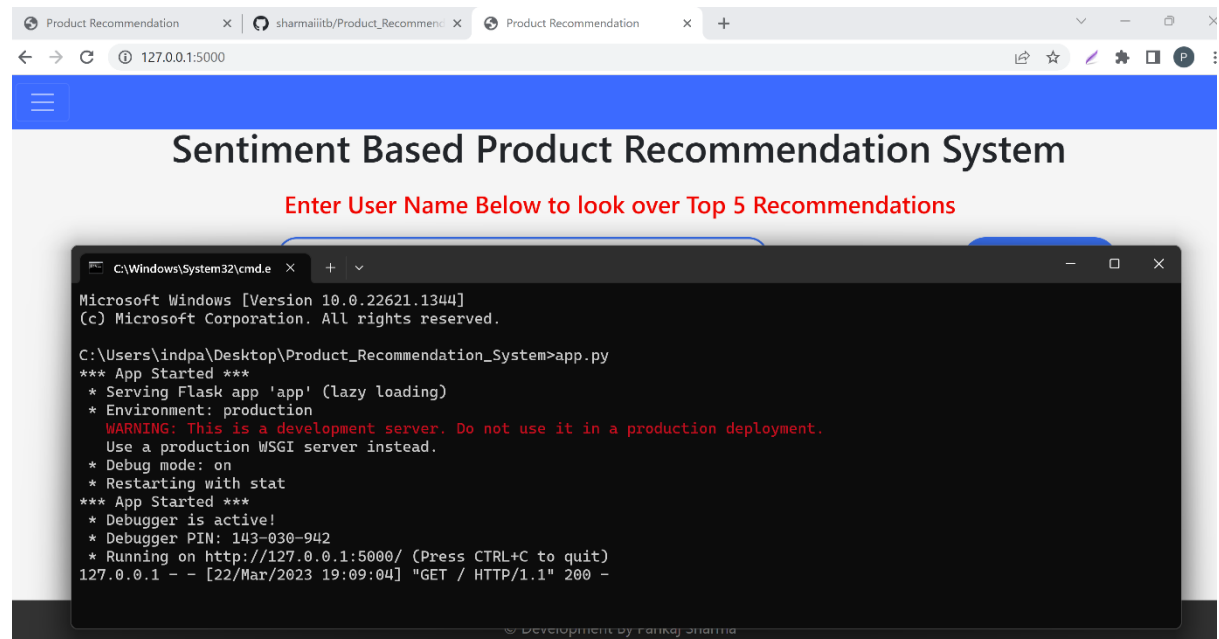
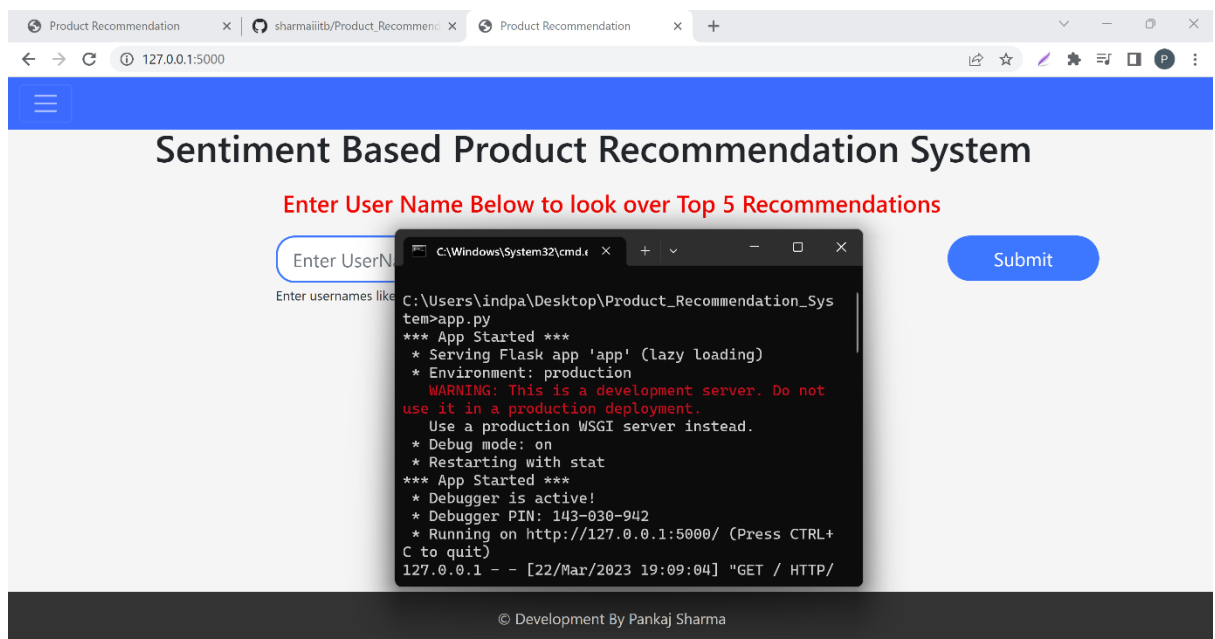
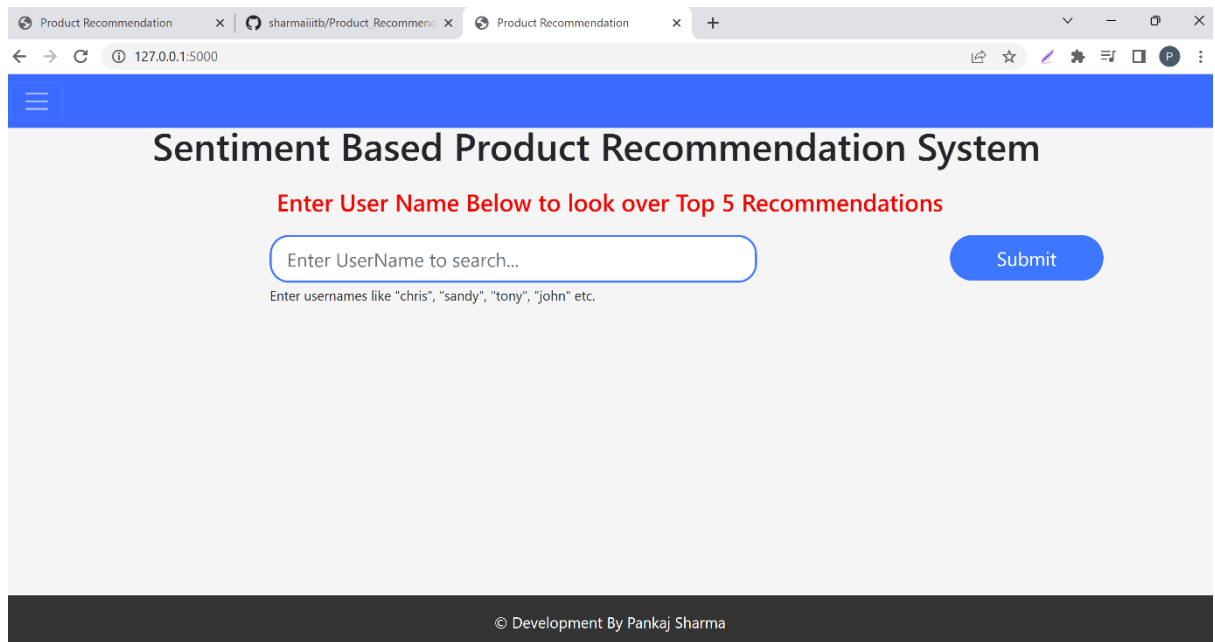


Running app.py on Flask's virtual environment on local machine



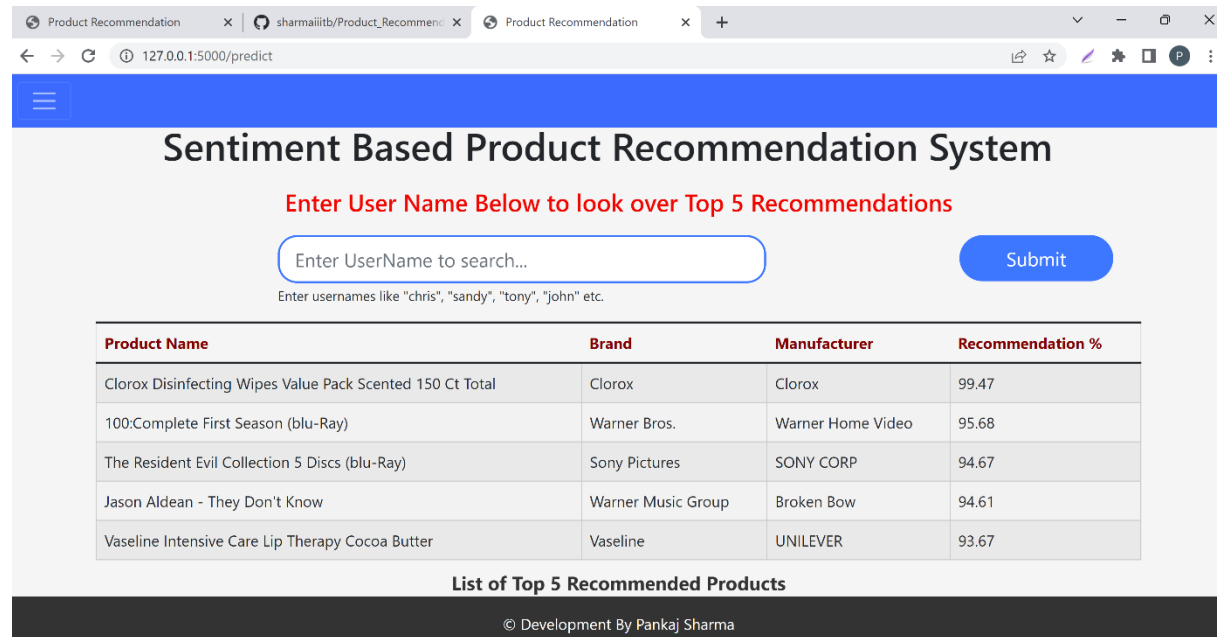
Sentiment based recommendation system hosted/running from Flask on local machine



After providing User Name as input, the app will be execute model.py to retrieve top 5 recommended products for the Entered User Name.

When Entered Suggested User Name output on web and terminal

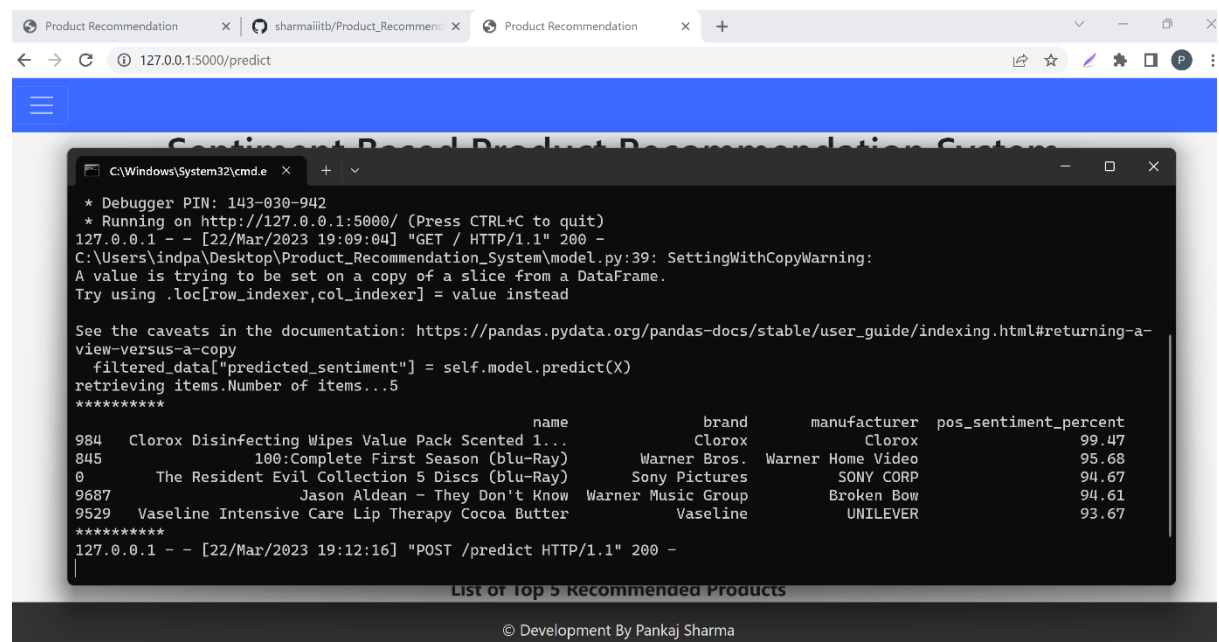
Web output



The screenshot shows a web browser window with the URL `127.0.0.1:5000/predict`. The page has a blue header with a menu icon. The main content area is titled "Sentiment Based Product Recommendation System" in a large, bold, black font. Below the title, there is a red text prompt: "Enter User Name Below to look over Top 5 Recommendations". Underneath this prompt is a search input field with the placeholder text "Enter UserName to search..." and a "Submit" button to its right. Below the input field, there is a small text hint: "Enter usernames like 'chris', 'sandy', 'tony', 'john' etc.". Below the hint is a table with 4 columns: "Product Name", "Brand", "Manufacturer", and "Recommendation %". The table contains 5 rows of product recommendations. Below the table, there is a caption "List of Top 5 Recommended Products" and a footer that says "© Development By Pankaj Sharma".

Product Name	Brand	Manufacturer	Recommendation %
Clorox Disinfecting Wipes Value Pack Scented 150 Ct Total	Clorox	Clorox	99.47
100:Complete First Season (blu-Ray)	Warner Bros.	Warner Home Video	95.68
The Resident Evil Collection 5 Discs (blu-Ray)	Sony Pictures	SONY CORP	94.67
Jason Aldean - They Don't Know	Warner Music Group	Broken Bow	94.61
Vaseline Intensive Care Lip Therapy Cocoa Butter	Vaseline	UNILEVER	93.67

Terminal output



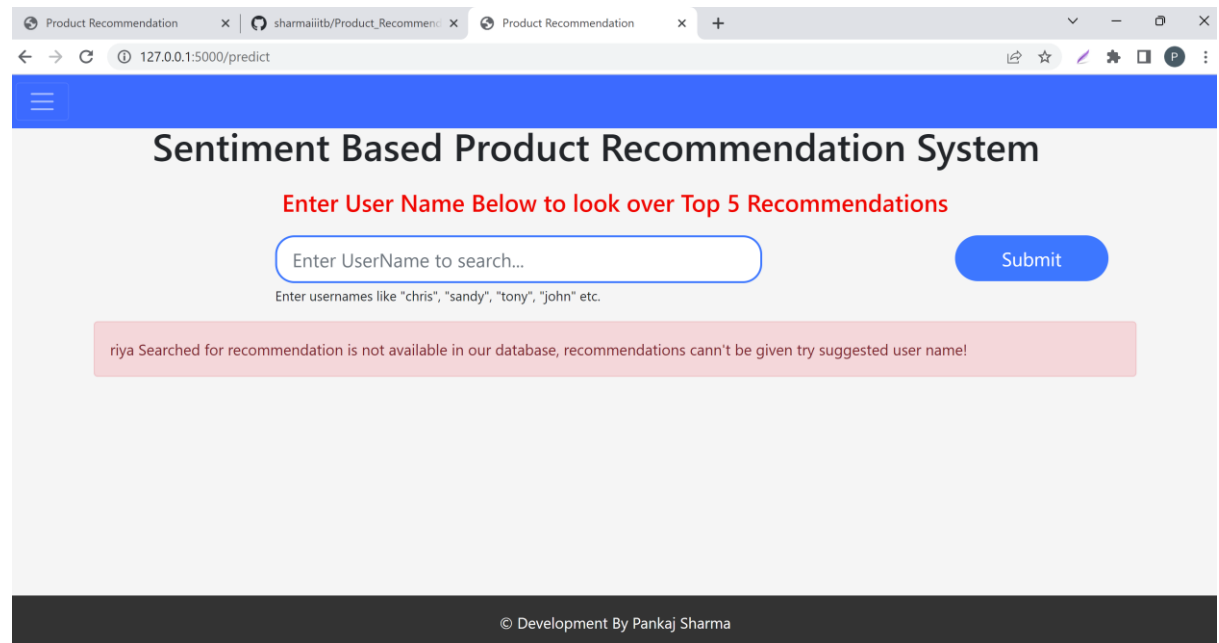
The screenshot shows a terminal window with the command prompt `C:\Windows\System32\cmd.exe`. The terminal output shows the execution of the `model.py` script. The output includes a debugger PIN, the URL `http://127.0.0.1:5000/`, and a list of 5 recommended products. The products are: Clorox Disinfecting Wipes Value Pack Scented 150 Ct Total (99.47%), 100:Complete First Season (blu-Ray) (95.68%), The Resident Evil Collection 5 Discs (blu-Ray) (94.67%), Jason Aldean - They Don't Know (94.61%), and Vaseline Intensive Care Lip Therapy Cocoa Butter (93.67%). The terminal output also shows the command `POST /predict HTTP/1.1` and the response `200`.

```
* Debugger PIN: 143-030-942
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
127.0.0.1 - - [22/Mar/2023 19:09:04] "GET / HTTP/1.1" 200 -
C:\Users\indpa\Desktop\Product_Recommendation_System\model.py:39: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
  filtered_data["predicted_sentiment"] = self.model.predict(X)
retrieving items.Number of items...5
*****
          name                brand  manufacturer  pos_sentiment_percent
984  Clorox Disinfecting Wipes Value Pack Scented 1...      Clorox      Clorox      99.47
845      100:Complete First Season (blu-Ray)      Warner Bros.  Warner Home Video      95.68
0      The Resident Evil Collection 5 Discs (blu-Ray)      Sony Pictures      SONY CORP      94.67
9687      Jason Aldean - They Don't Know      Warner Music Group      Broken Bow      94.61
9529      Vaseline Intensive Care Lip Therapy Cocoa Butter      Vaseline      UNILEVER      93.67
*****
127.0.0.1 - - [22/Mar/2023 19:12:16] "POST /predict HTTP/1.1" 200 -
```

When Entered Not Suggested User Name or New User Name output on web and terminal

Web output



Terminal output

