



## Project Development Phase Model Performance Test

Date	20 November 2023
Team ID	Team-592784
Project Name	Project - Restaurant Recommendation System
Maximum Marks	10 Marks

### Model Performance Testing:

Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Values	Screenshot																																												
1.	Model Summary	The overall model can be summarized as a content-based restaurant recommendation system. It leverages TF-IDF vectorization and cosine similarity to find restaurants with similar reviews. The recommendations are based on the 'Mean Rating,' and the system aims to provide a list of the top 10 restaurants that are similar to the input restaurant in terms of reviews.	 <table border="1"> <thead> <tr> <th>Restaurant</th> <th>Cuisine</th> <th>Mean Rating</th> <th>Count</th> </tr> </thead> <tbody> <tr> <td>Omachi</td> <td>Asian, Cafe, Indian</td> <td>4.37</td> <td>480.0</td> </tr> <tr> <td>Santitas</td> <td>North Indian, South Indian</td> <td>4.25</td> <td>1.2</td> </tr> <tr> <td>India</td> <td>Continental, Finger Food, Indian, Pasta</td> <td>3.87</td> <td>1.2</td> </tr> <tr> <td>SW Corner Restaurant</td> <td>South Indian, Chinese, North Indian, Street F...</td> <td>3.87</td> <td>100.0</td> </tr> <tr> <td>Shut's Down Biryani</td> <td>Biryani, North Indian, Mughal</td> <td>3.84</td> <td>800.0</td> </tr> <tr> <td>Starbucks</td> <td>Cafe, Desserts</td> <td>3.84</td> <td>780.0</td> </tr> <tr> <td>The Land Park</td> <td>American, Desserts</td> <td>3.73</td> <td>280.0</td> </tr> <tr> <td>Calabzom</td> <td>Bakery, Desserts</td> <td>3.72</td> <td>200.0</td> </tr> <tr> <td>Cafe Town Cafe</td> <td>Bakery, Desserts</td> <td>3.71</td> <td>100.0</td> </tr> <tr> <td>Kandi Desserts</td> <td>Milksh, Street Food</td> <td>3.71</td> <td>400.0</td> </tr> </tbody> </table>	Restaurant	Cuisine	Mean Rating	Count	Omachi	Asian, Cafe, Indian	4.37	480.0	Santitas	North Indian, South Indian	4.25	1.2	India	Continental, Finger Food, Indian, Pasta	3.87	1.2	SW Corner Restaurant	South Indian, Chinese, North Indian, Street F...	3.87	100.0	Shut's Down Biryani	Biryani, North Indian, Mughal	3.84	800.0	Starbucks	Cafe, Desserts	3.84	780.0	The Land Park	American, Desserts	3.73	280.0	Calabzom	Bakery, Desserts	3.72	200.0	Cafe Town Cafe	Bakery, Desserts	3.71	100.0	Kandi Desserts	Milksh, Street Food	3.71	400.0
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2.	Accuracy	<p>The model is related to creating a restaurant recommendation system using content-based filtering. However, it doesn't include any explicit training or validation steps. Content-based filtering models like the one shown in the code don't typically involve a traditional training and validation process with accuracy metrics as you might find in supervised machine learning tasks.</p> <p>Content-based filtering relies on the characteristics of items (in this case, restaurants) and user preferences to make recommendations. The TF-IDF</p>	 <table border="1"> <thead> <tr> <th>Restaurant</th> <th>Cuisine</th> <th>Mean Rating</th> <th>Count</th> </tr> </thead> <tbody> <tr> <td>Hadi Jassas Biryani</td> <td>Biryani, Indian</td> <td>4.10</td> <td>400.0</td> </tr> <tr> <td>Rub</td> <td>North Indian, Mughal, Mediterranean, Persian</td> <td>3.91</td> <td>1.0</td> </tr> <tr> <td>Ugahana Darabidi</td> <td>South Indian, North Indian, Chinese</td> <td>3.81</td> <td>400.0</td> </tr> <tr> <td>Maid Over Desserts</td> <td>Bakery, Desserts, Beverages</td> <td>3.75</td> <td>400.0</td> </tr> <tr> <td>CakeZone</td> <td>Bakery, Desserts</td> <td>3.72</td> <td>200.0</td> </tr> <tr> <td>Waffin-A-Go-Go</td> <td>Fast Food, Desserts, Ice Cream</td> <td>3.71</td> <td>400.0</td> </tr> <tr> <td>Grazers</td> <td>Cafe, Burger, Continental, Italian, Desserts</td> <td>3.71</td> <td>600.0</td> </tr> <tr> <td>Chai Point</td> <td>Tea, Beverages, Fast Food</td> <td>3.65</td> <td>200.0</td> </tr> <tr> <td>Burger King</td> <td>Burger, Fast Food, Beverages</td> <td>3.64</td> <td>400.0</td> </tr> <tr> <td>Mandya Ginnadu Dessert Biryani</td> <td>Biryani, South Indian</td> <td>3.60</td> <td>300.0</td> </tr> </tbody> </table>	Restaurant	Cuisine	Mean Rating	Count	Hadi Jassas Biryani	Biryani, Indian	4.10	400.0	Rub	North Indian, Mughal, Mediterranean, Persian	3.91	1.0	Ugahana Darabidi	South Indian, North Indian, Chinese	3.81	400.0	Maid Over Desserts	Bakery, Desserts, Beverages	3.75	400.0	CakeZone	Bakery, Desserts	3.72	200.0	Waffin-A-Go-Go	Fast Food, Desserts, Ice Cream	3.71	400.0	Grazers	Cafe, Burger, Continental, Italian, Desserts	3.71	600.0	Chai Point	Tea, Beverages, Fast Food	3.65	200.0	Burger King	Burger, Fast Food, Beverages	3.64	400.0	Mandya Ginnadu Dessert Biryani	Biryani, South Indian	3.60	300.0
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