



## **Model Development Phase Template**

Date	28 jun 2025
Team ID	Siddhesh Rajendra Mane
Project Title	Restaurant Recommendation System
Maximum Marks	10 Marks

## Initial Model Training Code, Model Validation and Evaluation Report Initial Model Training Code (5 marks):

```
from sklearn.feature_extraction.text import CountVectorizer
from sklearn.feature_extraction.text import TfidfVectorizer
df_percent.set_index('name', inplace=True)
indices = pd.Series(df_percent.index)

# Creating tf-idf matrix
tfidf = TfidfVectorizer(analyzer='word', ngram_range=(1, 2), min_df=0, sto
tfidf_matrix = tfidf.fit_transform(df_percent['reviews_list'])

cosine_similarities = linear_kernel(tfidf_matrix, tfidf_matrix)
```

## **Model Validation and Evaluation Report (5 marks):**

Model	Summary	Training and Validation Performance Metrics
Model 1	Content-based Recommendation	Training Metrics -None (unsupervised, no explicit training phase)  Validation Metrics - None (recommendations are inspected manually)



