



## **Model Development Phase Template**

Date	27 May 2025
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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)