

## 2.Advanced ML (Week 8.1 to 10) - Set -2

Total points 15/15

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✓ What is the correct route decorator for handling GET requests in Flask? 1/1

- ☐ A) @app.get('/endpoint')
- ☒ B) @app.route('/endpoint', methods=['GET']) ✓
- ☐ C) @app.url('/endpoint', method='get')
- ☐ D) @flask.route('/endpoint', 'GET')

✓ Which of the following is a disadvantage of content-based recommendation systems? 1/1

- ☐ A) Cold start for new users
- ☐ B) Cold start for new items
- ☒ C) Dependency on metadata ✓
- ☐ D) Lack of scalability

✓ Which type of recommender system is more prone to the "popularity bias"? 1/1

- ☐ A) Content-based filtering
- ☒ B) Collaborative filtering ✓
- ☐ C) Knowledge-based filtering
- ☐ D) Context-aware filtering

✓ What is the goal of feature selection in machine learning? 1/1

- ☐ A) To select features with the highest variance
- ☐ B) To increase the number of features
- ☒ C) To remove redundant and irrelevant data ✓
- ☐ D) To increase dimensionality

✓ Which metric is NOT commonly used to evaluate recommendation systems? 1/1

- ☐ A) Precision
- ☐ B) Recall
- ☐ C) RMSE
- ☒ D) F1 Score ✓

✓ In collaborative filtering, similarity between users or items is often calculated using: 1/1

- ☐ A) Cosine similarity

☐ B) Euclidean distance

☐ C) Jaccard similarity

☒ D) All of the above



✓ The main drawback of using wrapper methods for feature selection is: 1/1

☐ A) They are inaccurate

☐ B) They require data scaling

☒ C) They are computationally expensive



☐ D) They don't work on categorical data

✓ Which unsupervised technique is commonly used to reduce dimensionality but not considered feature selection? 1/1

☒ A) PCA



☐ B) RFE

☐ C) Chi-Square

☐ D) Lasso

✓ Which of the following methods selects features by evaluating the impact of each on a model's accuracy? \*1/1

☐ A) Variance Threshold

☒ B) Recursive Feature Elimination



☐ C) Pearson Correlation

☐ D) Mutual Information

✓ In a recommendation system, what does "implicit feedback" mean? 1/1

☐ A) Numerical product rating

☒ B) Clicks, views, and purchase history



☐ C) User surveys

☐ D) Item description

✓ The difference between dimensionality reduction and feature selection is: 1/1

☒ A) Dimensionality reduction creates new features; feature selection selects existing ones



☐ B) Feature selection creates new features

☐ C) Both are the same

☐ D) Feature selection cannot be used for model training

✓ Which technique ranks features based on how useful they are for predicting the target variable? 1/1

☐ A) PCA

☐ B) Feature Scaling

☒ C) Feature Importance (from trees)



☐ D) Normalization

✓ Which method is used in Flask to accept data from a frontend via POST JSON? 1/1

- ☐ A) request.data["input"]
- ☐ B) request.input\_json()
- ☐ C) request.form.get("input")
- ☒ D) request.get\_json() ✓

✓ Which recommendation approach uses rule-based logic rather than machine learning or statistics? 1/1

- ☐ A) Content-based filtering
- ☒ B) Knowledge-based filtering ✓
- ☐ C) Collaborative filtering
- ☐ D) Deep learning recommender

✓ In content-based filtering, recommendations are based on: 1/1

- ☐ A) Items liked by similar users
- ☒ B) Features of items the user liked before ✓
- ☐ C) Average item popularity
- ☐ D) User demographics

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