

### ColumbiaX: CSMM.102x Machine Learning

Help



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Lecture 19 Principal Component Analysis

Lecture 20 Markov Models, Ranking and Semisupervised Classification Examples

Week 10 Quiz

Quiz due Apr 11, 2017 05:00 IST Week 10 > Week 10 Quiz > Week 10 Quiz

# Week 10 Quiz

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### Multiple Choice

1/1 point (graded)

Principle component analysis projects data into a lower dimension by minimizing

- the dimensionality of the projection
- the sum of squared errors of the projection
- the absolut errors of the projection
- the total number of projections

Submit You have used 1 of 1 attempt

#### Checkboxes

1/1 point (graded)

Check all that apply: PCA can be done using \_\_\_\_\_

- an eigendecomposition
- unconstrained least squares minimization
- random projections
- the singular value decomposition

~

Submit

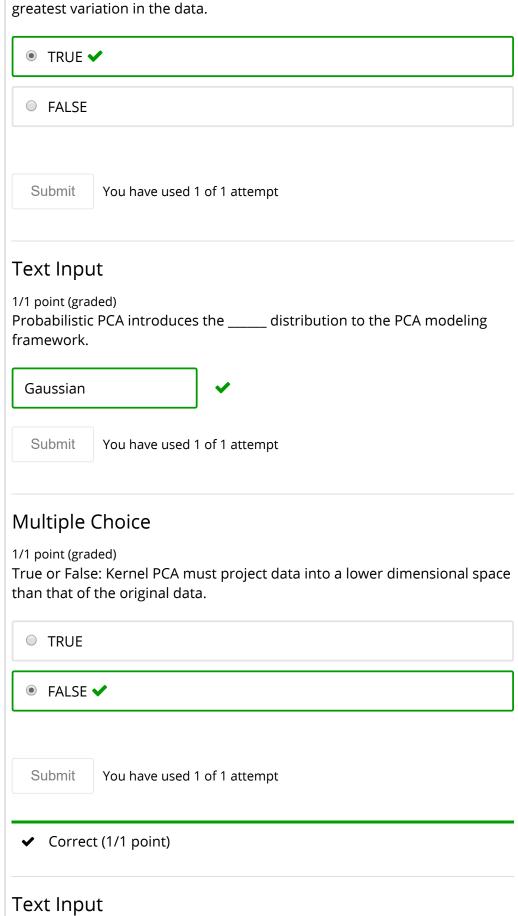
You have used 1 of 1 attempt

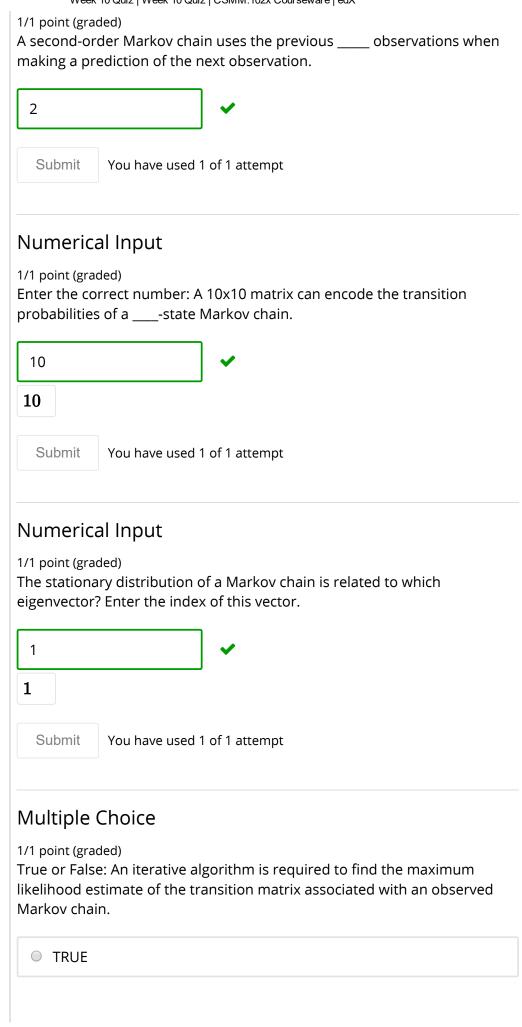
Week 10 Discussion Questions

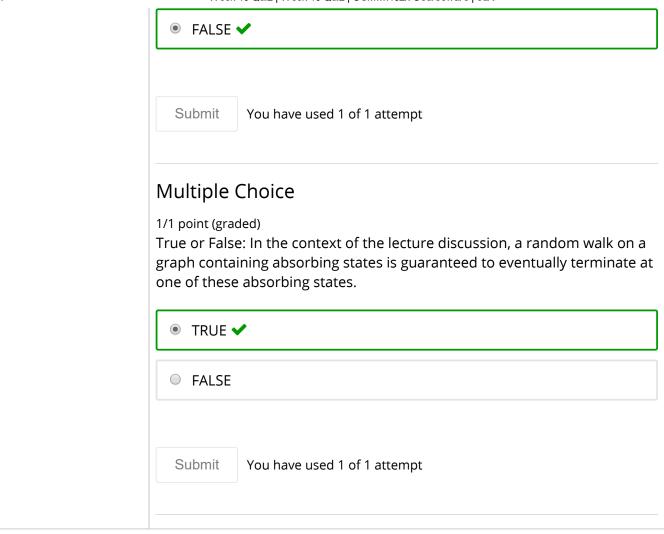
## Multiple Choice

1/1 point (graded)

True or False: The first principle component selects the direction of greatest variation in the data.







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