2018	JUNE
Week 25 171-104 CSE471 STATISTICAL METHODS IN A Wednesday	20
9 TAUGIHT BY	
10 · prof. jawahar CV	
11	
COURSE TOPICS	9
· introduction, feature representation	
· nearest neighbour classification	b
 random variables, probability densities, multivariate densities 	
· bayesian decision theory	
• naive bayes classifier	·
· maximum likelihood estimation (MLE)	
· linear discriminant functions	M 4
· perceptron learning	
minimum squared error procedures	
· logistic regression	
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Week 25 172-193

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L Thursday

neural networks, backpropagation, training

e methods

10 a principal component analysis and eigen baces,

" · linear discriminant analysis and fischer faces.

* max-margin classification (SVM), SVM variants

• data clustering, k means (EM) and variants, hierarchical clustering.

3 ofecision trees

graphical models, bayesian belief networks

combining classifiers, boosting.

TEXT BOOKS

1. pattern classification; aluda.

2. machine learning - a probabilistic perspective; murphy.

3. Neural networks - a comprehensive foundation; haykin.

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