

UNIVERSITY OF BIRMINGHAM

COMPUTER SCIENCE YEAR 3

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Year 3 Study Guide



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Chapter 1

Machine Learning

Machine Learning

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1.2.2 K-Nearest Neighbours

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Chapter 2

Neural Computation

Neural Networks

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Chapter 3

Intelligent Data Analysis

Data Analysis

3.1 Principal Component Analysis

3.1.1 Covariance

3.1.2 Eigenvalues

3.2 Document Mining

3.2.1 Representation

3.2.2 Latent Semantic Indexing

3.3 Clustering and Classification

3.3.1 Clustering

3.3.2 Classification

3.4 Information Retrieval - PageRank

3.5 Additional Resources

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Chapter 4

Networks

Networks

Chapter 5

Network Security

Networks++

Chapter 6

Advanced Functional Programming

Functional Programming for a 3rd time lets go