QBUS6850

Machine Learning for Business

Assigntroduction to the linit

https://Professor Junion Gao

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Discipline of Business Analytics

S2 2018









Teaching Team

➤ Unit Co-ordinator & Lecturer: Professor Junbin Gao Consultation hour: Tuesdays 14:00-15:00.

Assignment Project Exam Help

Lecturer: Dr. Jie Yin Coder.com
Consultation hour: Mondays 15:30 – 16:30
Room 15:30 – 16:30

➤ Lecturer: Dr Thang Bui

Consultation hour: Wednesdays 14:30 – 15:30

Room 4037, H70.



Lectures

☐ This unit is offered by the **Discipline of Business Analytics**,

Lectures (Week 1 to Week 13)

*Time: Mondayentappoject Exam Help

Room: ABS Case Study Lecture Theatre 1060, H70

Lecturer: Professor Junbin Gan Lecturer

*Time: Mondays 1600 Plat powcoder

Room: ABS Case Study Lecture Theatre 1060, H70

Lecturer: Dr Thang Bui

❖Time: Tuesdays 14:00-16:00

Room: Carslaw Lecture Theatre 273

Lecturer: Dr Jie Yin



Tutorials

Tutorials (Week 1 to Week 13)

- Time: Mon 12:00 or 18:00 or 19:00

 Room: Codrington Computer Laboratory 2 (H69 building)

 ASSIGNMENT Project Exam Help
- * Time: Mon 17:00
 Room: Codrington Computer Laboratory 4 (H69 building)
- * Time: Tue 10:00 of 18:00 chat nowcoder

 Room: Codrington Computer Laboratory 2 (H69 building)
- ❖ Time: Tue 12:00
 Room: Codrington Computer Laboratory 5 (H69 building)



Tutorials

❖ Time: Wed 17:00

Room: Codrington Computer Laboratory 2 (H69 building)

❖ Time: Thu 17:00 and Fri 09:00

Room: Codrington Computer paperatory 2x(H69 building)

Time: 18:00 Wed (week 3,5),9,4,13) and 19:30 Wed (week 1-2,4,6,8,10,12)

Room: Codrington Computer Laboratory 2 (H69 building)

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Note:

- This unit contains a 1-hours tutorial which focuses on practical exercises using Python
- Students must attend their centrally assigned tutorials



Suggested Reading List

- □ Pattern Recognition and Machine Learning (2006), Chris M. Bishop, Springer. (Bishop, 2006)
- □ Data Science for Business (2013), Foster Provost and Tom Fawcett, O'Reilly Media, Inc. (Provosti and Townett Provost Exam Help
- ☐ Introduction to Machine Learning (2014), Ethem Alpaydin. The MIT Press. https://powcoder.com
 (Alpaydin, 2014)
- ☐ The Elements of Statistical Vealing (2009), Friedman, Jerome, Trevor Hastie, and Robert Tibshirani. Springer, Berlin: Springer series in statistics. (Friedman et al., 2001)
- ☐ An introduction to statistical learning: With applications in R (2014), Gareth James, Daniela Witten, Trevor Hastie, and Robert Tibshirani. Springer-Verlag, New York: Springer Texts in Statistics. (James et al., 2014)



Software

- ☐ Python (used in this course)
- ❖Free and works on PCs, Mac, Unix/Linux
- ❖Does statistical modelling, visualisation and programming
- *Can be used ssignment Project Exame Helps class

https://powcoder.com

- □ Matlab
- Licensed: USyd provides a license to enrolled students and can be downloaded and installed on personal computers
- ❖ No technical support from the teaching team
- Other languages: R, SAS etc. However excel is not enough to complete most machine learning tasks



Workload

☐ The unit requirements:

- Attend a 2-hour lecture per week
- Attend a A-boig tutorial to lesso jectweekam Help
- Submit individual assignments 1&2 10% each https://powcoder.com
- Submit the group project report 20%
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- ❖ Complete mid-semester exam 20%
- Complete the final exam 40%



Weekly Schedules

Assessment Title	Assessment Type	Argin Hoay Group	AREMEN Conditions	Program Paragram Outcomes Assessed	Exa	mg _s .	Telp Time	Due Date	Closing Date
Assignment 1	Assignment	Individual +	Garapu/s/pp	1x23AA	NA CC	10%	5:00pm	03-Sep-2018	10-Sep-2018
Assignment 2	Assignment	Individual	Compulsory			10%	5:00pm	15-Oct-2018	22-Oct-2018
Group Project	Assignment	Group	Compulsory	1, 2, 3, 4, 5, 8h at 10	NA OXX/C	20%	5:00pm	29-Oct-2018	05-Nov-2018
Mid-Semester Test	In-semester exam (mid)	Individual	Compulsory	<u>hat p</u>	2 hours			Mid Semester Exam Period	Mid Semester Exam Period
Final Exam	Final exam	Individual	Compulsory	1, 2, 3, 4	3 hours	40%		Final Exam Period	Final Exam Period
Academic Honesty								Week 4	



Weekly Schedules

Week	List of Topics	Assessments Due					
1 30 Jul 2018	Machine Learning Foundation; Linear Algebra and Matrix Computation Review	Tutorial classes start this week					
2 6 Aug 2018	Python Machine Learning						
3 13 Aug 2018	Model and Feature Selection						
4 20 Aug 2018	scale Assignment Project Exam	n Help					
5 27 Aug 2018	High Dimensional Classification Methods						
6 3 Sep 2018	Advanced Classification Feethrique OWCoder.com	Assignment 1 due 03-Sep-2017					
7 10 Sep 2018	Advanced Classification Techniques II	dor					
8 17 Sep 2018	Advanced Classification Techniques II Add WeChat powco Extreme Gradient Boosting	Mid-semester exam date (TBA)					
Common week 24 Sep to 30 Sep							
9 1 Oct 2018	Neural Networks and Deep Learning I						
10 8 Oct 2018	Neural Networks and Deep Learning II						
11 15 Oct 2018	Matrix Factorization	Assignment 2 due 15-Oct-2017					
12 22 Oct 2018	Recommendation Systems						
13 29 Oct 2018	Machine Learning with Big Data	Group project due 29-Oct-2017					



Advice

- ☐ You should spend a minimum of 12 hours per week on Abisgunitent Project Exam Help
- Tou must attend appearders with and complete all assessment items.



Communication with Staff

- **□** For general administrative inquiries:
 - Contact Ms Colleen, Phone: 9351 3069
 - Discipline Executive Officer of the Discipline of Business Analytics, in Room 4082, Abercrombie Building

Assignment Project Exam Help

- For inquiries about teaching materials (Technical)
 - Preferred method of communitations is in the constant of the
 - Enquiries sent by email will mote that powcoder
- ☐ For administrative & all other general inquiries about this unit (Non-technical)
 - Preferred method of communication is verbal, during office hour.
 - Email correspondence is also preferred.



Communication with Staff

A Rule that you must follow

Emails must be sent from your university email account. On the subject line your grustevrite rojetts 68 50 moult elipeam: Your

Name (Your SID) - Keywords of your inquiries". https://powcoder.com

- Many emails are received every day, so there is no guarantee that your emails will be answered immediately.
- Emails sent from non-university email account will not be read & replied.
- Emails with correct subject line will receive high priority.



Need Help?

- □ Discipline of Business Analytics
 - Unit Coordinator, Lecturers and Tutors
- □ Business Aschigmment Project Exam Help
 - PASS (Peer Assisted Study Sessions) Free enrolment http://sydney.edu.au/business/learning/students/pass
 - Maths in Business/Learning/students/maths
- □ Faculty of Science
 - Mathematics Learning Centre at Level 4, Carslaw Building (Email: mlc.enquiries@sydney.edu.au)



Big data in Business specialisation

Specialisation outline

To meet requirements for this specialisation in the Master's degree, you complete five units of study (30 credit points), comprising:

- (1) one six credit point foundational unit of study as follows:
 - QBUS5001 Quantitative Methods for Business.
- (2) one six credit point capsus y griffing Project Exam Help
 - BUSS6002 Data Science in Business
- (2) 18 credit points in elective advanced units of study selected from the available elective options listed in the University of Sydney Business School (Postgraduate) Hander Soluding OWCOGET.COM
 - INFS6018 Managing Business Intelligence
 - INFS6023 Data Visualisation Add WeChat powcoder
 - ITLS6107 Applied GIS and Spatial Data Analytics
 - MKTG6001 Marketing Research Concepts
 - MKTG6018 Customer Analytics and Relationship Management
 - QBUS6810 Statistical Learning and Data Mining
 - QBUS6840 Predictive Analytics
 - QBUS6850 Machine Learning for Business.

http://sydney.edu.au/courses/master-of-commerce/specialisation-big-data-in-business

^{*} Not offered in 2017.

Hope you enjoy this unit!

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University of Sydney Business School https://powcoder.com

sydney.edu.au/business/business.analytics Add WeChat powcoder

