

Information Technology

FIT5202

"It's about Big Data"

Week 1a - Overview

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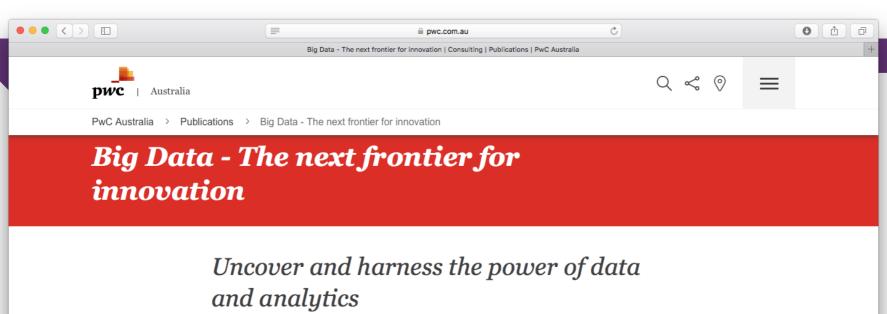
algorithm distributed systems database systems computation knowledge madesign e-business model data mining interpretation distributed systems database software computation knowledge management and

Overview

- 1. A new unit
- 2. About Big Data
- 3. Main requirement:
 - You must like programming
 - Not necessarily databases
- 4. 1st Warning:
 - Programming... Programming

Why take this unit?

- 1. Jobs
- 2. Not enough experts



A term that is quickly trending within the rapidly evolving digital economy, Big Data represents an enormous opportunity for businesses looking to differentiate and be relevant within the current environment. With numerous sources of data available to businesses both internally and externally, leveraging Big Data and analytics can drive innovation and uncover potential

As businesses move towards a Consumer Adaptive Retailing model of operation, Big Data is crucial to achieving context adaptive marketing.

In our report Big Data – The next frontier for innovation, we explore how your business can uncover the hidden opportunities within Big Data and leverage these to drive informed business decisions, while enhancing customer experience and innovation.

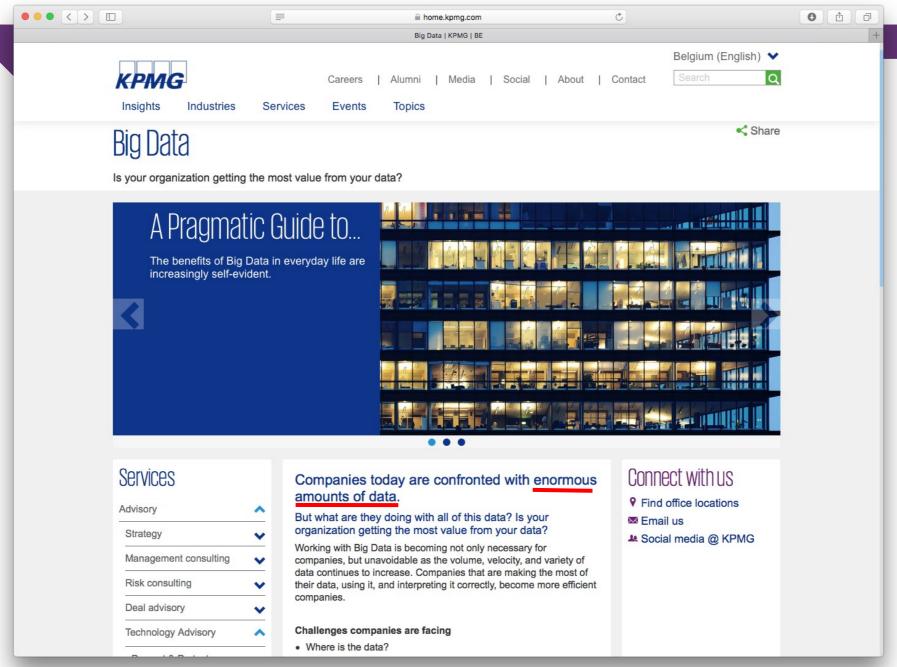


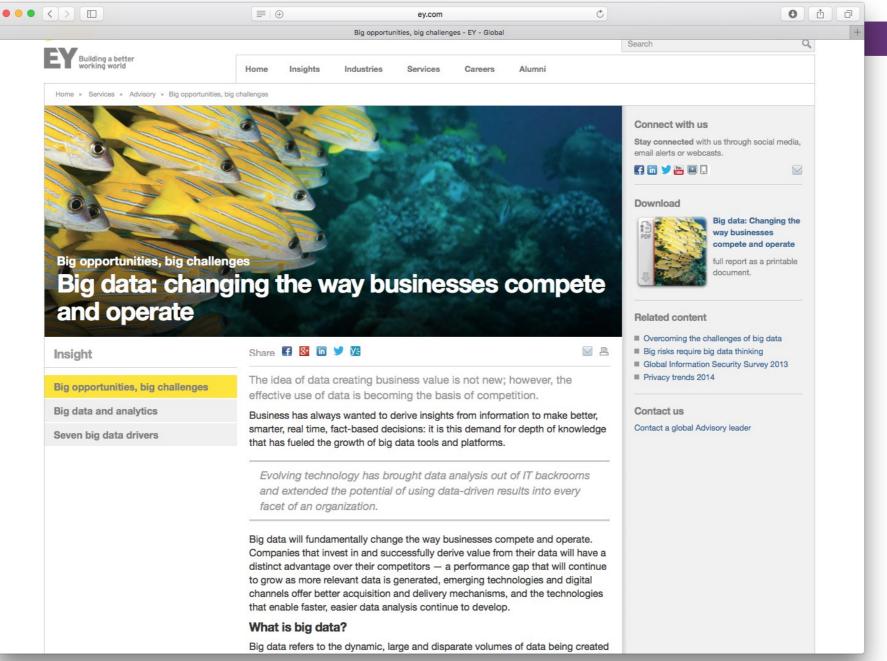
for disruption.

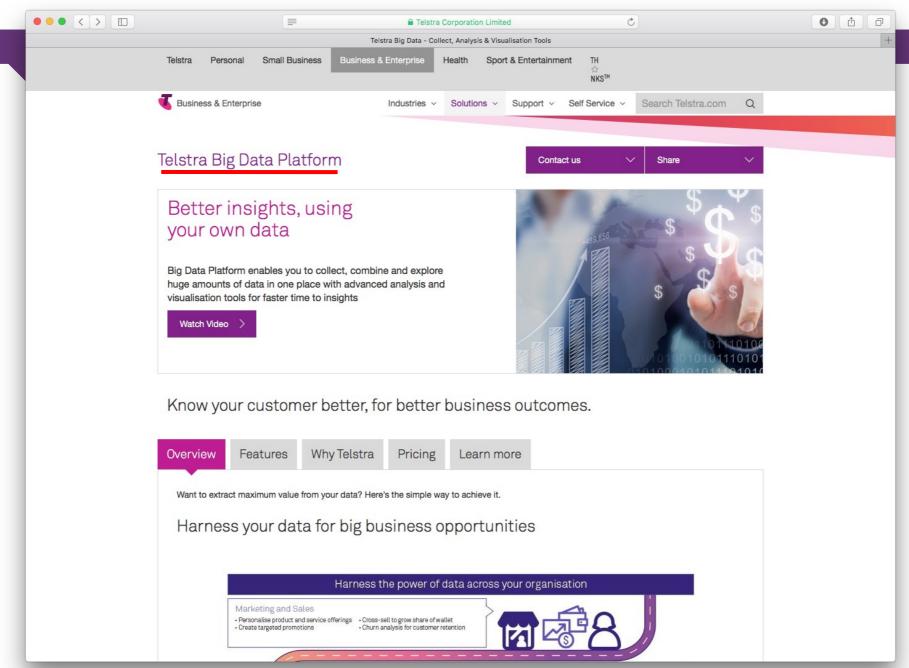
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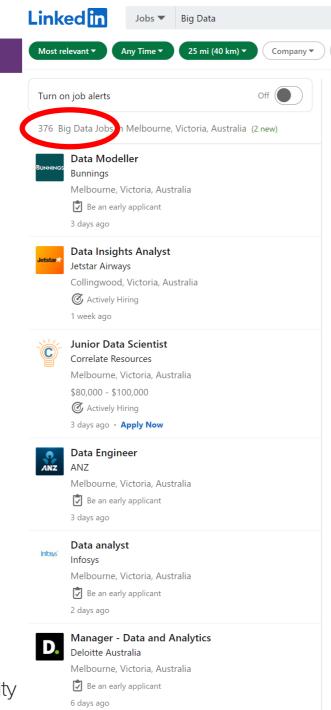
Big Data – The next frontier for innovation











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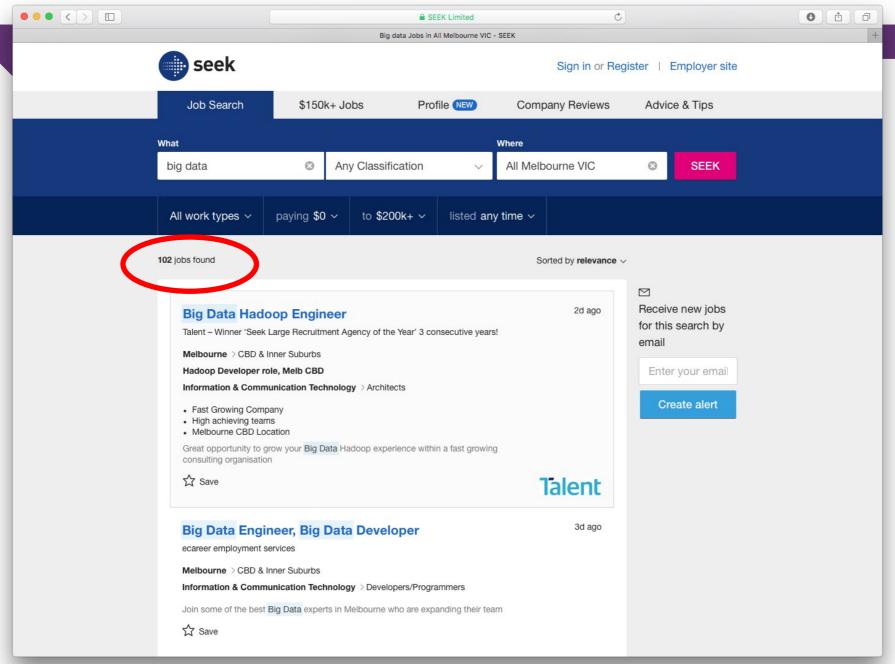
Within HPE's Ezmeral Software Division, we are solving the world's most comple: challenges, and our people are at the forefront of this progress. HPE Ezmeral advances digital transformation initiatives by shifting time and resources from IT Operations to Innovations. Ezmeral Software modernises apps, simplifies operations, and harnesses Data to Go from Insights to Impact.

HPE Ezmeral currently has a fantastic opportunity for an individual based in eithe Melbourne or Sydney to join our APAC team. You will initially partner closely with a seasoned PreSales Systems Engineer to help shape and deliver on our strategy to build broad use of Artificial Intelligence / Machine Learning container-based applications across a broad range of customers and partners.

Your initial responsibilities will be tailored to your experience and adjusted as your experience grows. Some of the activities you will be tasked with includes -building demos and Proof of Concepts (POCs), participating in deep-dive technical discussions around design. You will expand your knowledge of the Artificial Intelligence / Machine Learning ecosystem services, market segments, customer base and industry verticals.

About You

Graduate in Computer Science, Data Science, Maths, Software Engineering or



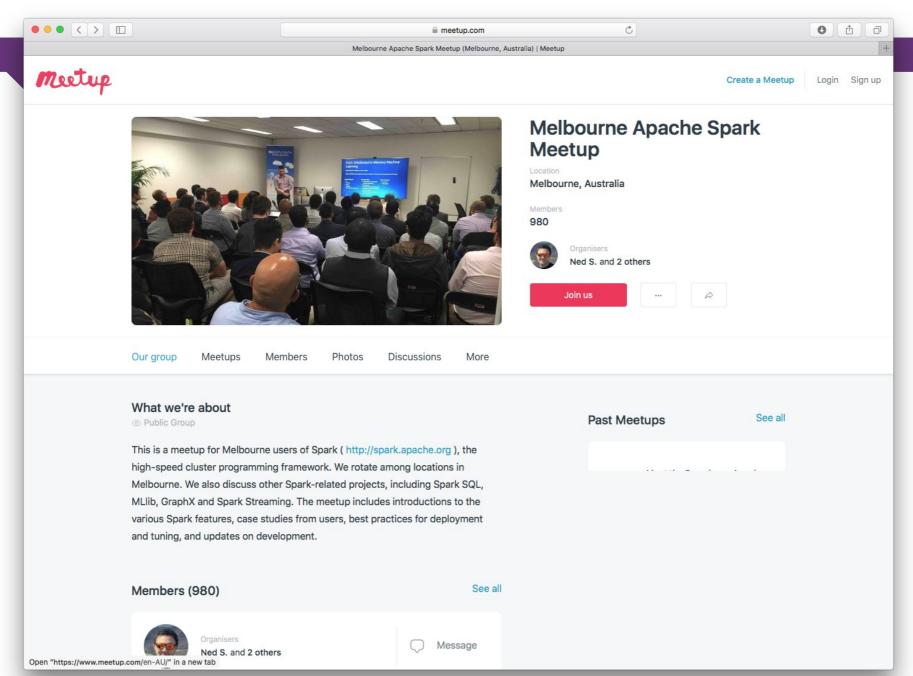
Technologies you are going to learn...

- 1. Python as the base programming language
- 2. Apache Kafka
- 3. Apache Spark and Streaming









How to pass this unit?



https://medium.com/shanghaiist/ice-boy-moves-hearts-online-after-walking-4-5-km-to-school-in-freezing-temperatures-ca1c4938685b

How to pass this unit?

2nd Warning:

Do you really want to pass this unit?

Following the learning pathway:

- ☐ Pre-workshop/lab
 - □ Read Lecture materials
 - Watch lecture videos
 - ☐ Read lab resources
- Workshop: Important aspects of lectures will be highlighted and reviewed,
- Labs: Participation in lab tasks, followed by discussions by lecturer



Assessments...

1. Weekly Quiz (5%)

- Individual assessment
- 5% (Week 2-11, 0.5 Mark * 10)
- Each quiz opens for 6 days: 2 days before each week's lecture and closes 3 days after the lecture.

2. Assignments (40%)

- 2 Individual Assignments
- A1: 10% and A2: 30% (2 parts, 15% each)

3. Lab Tasks (5%)

- Individual assessment
- 5% (Week 2-11, 0.5 Mark, including 0.25 for attendance, and another 0.25 for 1-2 questions)

4. Exam (50%)

Hurdles:

- In-semester Hurdle (45%): Quiz+Lab+A1+A2 Part A+B *45% = 22.5/50.
- Final Exam Hurdle (45%): You need to get 22.5/50 in the final exam.

Lecturers

Chief Examiner



Assoc. Prof. David Taniar

Lecturer



Assoc. Prof. Ting Chee Ming