KAPLAN

Dublin Business School

Data Analytics Capstone Project

Dr Shazia A Afzal

Placement and Project Coordinator

KAPLAN

Structure of Higher Diploma in Science in Data Analytics

Taught Modules (50 credits)

Total: 60 credits

Project (10 credits)

Nearly End of Course

Project (10 Credits) – Pass or Fail (No marks)

KAPLAN

Data Analytics Project

• A Data Pipeline /Analysis/ Investigation/Visualisation/ Artefact - a combination of parts, a scientific investigation/experiment
• Your own work (Not a copy)
• Useful
• Challenging
• With the depth expected from a graduate with this qualification
• Report

KAPLAN

Data Analytics Project – Scope

- Project is different from your assignments that you complete for taught modules
- It is not only a simple data mining project, not a visualisation project with all steps explained
- Description will not be given to you
- This time you are the boss
  - You are going to work on whatever you like to do
  - Think, what are you interested in? – technologies, markets, industries,…
  - Think - where lots of data can bring insight to improve things

KAPLAN

Data Analytics Project Includes?

- An idea from any employment
- Any idea that you like during your classes
- You can ask lecturers in your favourite subject(s)
- (Please respect their time)
- Create a list of possible topics that you like to do

KAPLAN

Topic Ideas?

- Data Mining Project
  - Develop a predictive model for TV shows, movies, student grades, diseases, etc.
  - How can you actually implement it
  - Add an interface if possible
- Web Mining Project
  - Auto topic extraction from web documents
  - Sentiment Analysis
  - Recommender Systems
- Use of NoSQL and Hadoop for Big Data processing and Analysis
- Learn to apply Google's Tensorflow to solve a real-world problem with machine learning.

KAPLAN

Project

- Choose your topic
  - Do research to get the depth of it – what is it actually in other's eyes/ongoing work/research?
  - What other people have done on it and how?
  - How would you do it – Any techniques/ tools?

KAPLAN

Project

- Whatever you do, try to dig deeper and develop a piece of work to include in your *portfolio*
  - SHOULD enhance your job prospects
  - There might even be a business in it!
- Most Important
  - You cannot graduate without doing a project

- First Step – proposal Submission
  - Supervisors will be allocated after proposal submission

KAPLAN

Project Proposal

- You have to show the evidence of self-motivated learning
  - Do research
  - Choose some do able Project
  - Specify Scope
  - Think about the techniques that you learnt during the course
  - Mention new tools/techniques that you are learning by doing this project

KAPLAN

Project Proposal

- Project background and objectives
- Scope
- Benefits
- What is to be produced – required technologies, skills
- Timeline
- What you will learn
- *Proposal Template is available on Moodle*
- DETERMINES IF PROJECT IS ACCEPTABLE OR NOT
- ADVICES TO MAKE AMENDMENTS
- IF NECESSARY WILL BE REFERRED TO ETHICS COMMITTEE

KAPLAN

How are the supervisors appointed?

- After Proposal Submission, the process of supervisors' allocation will start

- We will make matches based on common interests

- NO PROPOSAL / INCOMPLETE PROPOSAL = NO SUPERVISOR

KAPLAN

Interim Submission

- Key progress report

- Allows for feedback and correction

- Should include complete project plan

- Full scope of deliverables and full timeline

- Presentation and demo of work in progress

- Evidence or literature review, market and technology research

KAPLAN

Final Report

- Permanent record of what you achieved
- Demonstrates completion of the research, development and implementation
- Submission is electronic on Moodle

KAPLAN

Presentation

- Presents your project to a peer group, supervisor and moderator

- Acts as a "viva voce" which is a live defense of your project and a key protection against plagiarism

KAPLAN

Process
- This is independent work
- You will have a supervisor
- Role of supervisor is not to design, develop and debug – that's your role
- Supervisor will advise, guide and help with any issues
- Projects showing evidence of independent and self-motivated learning will be passed

KAPLAN

Proposed Timeline

Submission	Timeline	Weighting	Word Count
Proposal	**26th June**	10%	1000
Allocation of Supervisors	**By 3rd July**		
First Meeting	**Must be completed by 10th July**		
Interim Submission	**14th August**	20%	1500
Demonstration	**By 21st August**		
Final Report	**25th September**	40%	4000
Presentation	**28th September – 2nd October**	25%	15 minutes
Project Management	**N/A**	5%	N/A

Project Handbook contains all the information. It will be available on the Moodle Page

KAPLAN

Questions?

KAPLAN