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**School of Computing Science and Digital Media**

Faculty of Design and Technology

**Coursework Assignment**

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| --- | --- |
| Surname | Tait |
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| Matriculation Number | 1504693 |
| Contact phone number | - |
| Course + Year | MSc Data Science |
| Module Co-ordinator | Rob Lothian |
| Module Number + Name | CMM534 Big Data Analytics and Visualization |
| Coursework Title | CMM534 - Coursework Assignment |
| Coursework Part | - |
| Due Date | 4th May 2018 |

**Declaration** \*\* *This* ***must*** *be affirmed by signing below*

**I confirm**

* **that the work undertaken for this assignment is entirely my own and that I have not made use of any unauthorised assistance**
* **that the sources of all reference material has been properly acknowledged.**

|  |  |
| --- | --- |
| Student Signature |  |
| Date Submitted | 4th May 2018 |

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| **Marker's Comments** | |
| **Marker** | **Grade** |

\*\* An extract from the University Regulations

6. **Academic Misconduct**

Refer also to Schedule 3.3 of this Regulation for guidance on this procedure.

6.1 **Academic Misconduct** is defined as any attempt by students to gain an unfair advantage in assessments and examinations. Examples of academic misconduct include plagiarism, cheating, falsifying data, collusion, bribery or attempted bribery, personation or any other activity intended to provide an unfair advantage.

(i)**Plagiarism** is the practice of presenting the thoughts or writings of another or others as original, without acknowledgement of their source(s). All material used to support a piece of work should be carefully referenced and should not normally be copied directly unless as an acknowledged quote. Text translated into the words of the individual student should in all cases acknowledge the source.

(ii)**Cheating** includes:

1. the taking of any unauthorised material into an examination;
2. obtaining copy of “unseen” papers in advance of an examination;
3. communicating or attempting to communicate in any way with another student during an examination;
4. copying or attempting to copy from another student during an examination or in the production of coursework;
5. wilful deception in any element of an examination or assessment.

(iii) **Falsification of data** consists of the misrepresentation of the results of experimental work or the presentation of results from fictitious work.

(iv) **Collusion** is the representation of unauthorised group work as that of an individual student.

(v) **Bribery** is the paying, offering or attempted exchange of an inducement for information or material intended to advantage the recipient in an examination or assessment.

(vi) **Personation** consists of a substitute taking the place of a student in an examination.

**A student who aids and abets a fellow student to commit academic misconduct shall be deemed to have committed academic misconduct and will be dealt with accordingly.**

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# Task 1 – Spark/ Hadoop

Scripts

For scripts please see the python 2 notebook file.

# Task 2 – Neo4j

Database Design

Scripts

For scripts please see the create and queries cyber code files.

# Task 3 – Technical Paper

Choices

Firebase

References