

Teaching Scheme

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| **Programme Name & Stage:** | Data Analytics Semester 2 FT |
| **Module Title:** | Strategic Thinking |
| **Semester:** | 2 |
| **Lecturer:** | James Garza |

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| PowerPoint Presentation, Paper, artefact, individual reflective report | 60% |

**Assessment Weighting: 60%**

**The remaining 40% has been assessed in semester 1.**

**NOTE:** This Teaching Scheme is intended as a GUIDE ONLY. The topics/areas covered may change from time to time.

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| **Week No.** | **Date Commencing** | **Major Topic(s) / Subject Area(s)** | **References** |
| 1 | 28th August | Introduction to Data Science Resources / Recap last semester |  |
| 2 | 4th September | Model Interpretability / Explainability -  SHAP and LIME |  |
| 3 | 11th September | Model Interpretability continued - PyWhy |  |
| 4 | 18th September | Machine Learning Model Metrics. |  |
| 5 | 25th September | Compare Machine Learning models and improving metrics. Gradient Descent |  |
| 6 | 2nd October | Analytical Thinking 3 |  |
| 7 | 9th October | Grid and Random Search Cross Validation |  |
| 8 | 16th October | Machine Learning Pipelines and creating templates. |  |
| 9 | 23rd October | Machine Learning Case Study 1 |  |
| 10 |  | **READING WEEK\*(30th October)** |  |
| 11 | 6th November | Machine Learning Case Study 2 |  |
| 12 | 13th November | Reflection |  |
| 13 | 20th November | CA Presentation |  |
| 14 |  | **REVISION PERIOD\*\*** |  |

*\*Although there are no classes scheduled during Reading Week, please note that this is not a Holiday period, and it is possible that additional classes may be scheduled during Reading Week if necessary.*

*\*\* During Revision Periods, your lecturer may schedule an additional class if this is necessary.*