

Overall Risk Assessment

G5 general risk evaluation

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Risks

Technical Competency

- ❖ The team may be lacking the requisite machine learning and data warehousing knowledge.

Time

- ❖ Time is an important risk to consider as the complexity of the project and the method in which we aim to complete it directly affects the amount of time available for each task.
- ❖ Wasted time or time lost due to external issues is not recoverable and as such the team needs to use time wisely and plan accordingly.
- ❖ Unforeseen work-life commitments.
- ❖ NSW DCS requirements may be beyond the scope of ITC303 & ITC309

Quality

- ❖ Without a high standard for quality we may damage relationships with important stakeholders of the university.
- ❖ NSW DCS data may entail legal compliance measures relating to data confidentiality and integrity.

Team work

- ❖ In order for this project to work and be successful. All members of G5 will have to work together and do their required tasks and be available for some overflow work as required.

Resources

- ❖ DCS requirements may entail significant resources related to data warehousing and machine learning. Models such as artificial neural networks and convolutional neural networks require significant overhead to design and train models on large datasets with backwards propagation optimisation algorithms.

Mitigation Strategies

Technical Competency

- ❖ DCS have mandated that students successfully complete the AWS Certified Cloud Practitioner exam prior to being able to work on the project. The team will complete the AWS certification and training courses related to machine learning and data warehousing to ensure technical competency (AWS, 2021a).
- ❖ DCS have partnered with Intellify to assist with upskilling of Spatial Services staff in the use of ML/AI.

Time

- ❖ Team members will commit to the guidelines for allocating work hours outlined in the Charter's expected work commitment.

Quality

- ❖ The team will use branches within git to provide code history and code reviewing prior to merging.
- ❖ Google code style guidelines will be used to provide consistency and appropriate formatting (Google, 2021).
- ❖ Commercial quality project not promised by Charles Sturt University.

Team Work

- ❖ Team will adhere to the performance management process outlined in the Charter to ensure timely communication and completion of work items.

Resources

- ❖ The team will utilise AWS pre-trained machine learning models and data warehousing services where appropriate. This will significantly reduce the initial barriers to achieving project outcomes (AWS, 2021b; AWS, 2021c).

References

AWS (Amazon Web Services). 2021a. *Training and Certification*.

<https://www.aws.training/>

AWS (Amazon Web Services). 2021b. *ML Building Blocks: Services and Terminology*. <https://www.aws.training/Details/Curriculum?id=27242>

AWS (Amazon Web Services). 2021c. *Data Warehousing on AWS*.

<https://www.aws.training/SessionSearch?pageNumber=1&courseId=10025>

Google Github. 2021. *Google Java Style Guide*.

<https://google.github.io/styleguide/javaguide.html>