



Research Project Progress Report

Week [4] – SIT723

Student Name:	Oscar Wu
Supervisors' Names:	Daniel Ma
Project Title:	Discovering Covid-19 Misinformation using NLP
SIT723 Target Grade:	HD
Overleaf Project Link:	https://www.overleaf.com/read/pbmngdmgghsnq
Project Folder Link:	https://github.com/wuyoscar/SIT723-Reserach-Project-A
Worklog:	29 See worklog below attached
Project Plan	
Summary of the work planned with your supervisor:	<p>[Add details of the work you intended to complete, i.e., planned in consultation with your supervisors in the past/current week]</p> <ul style="list-style-type: none">• We looked for possibility to fin fake bias phrase, which determines covid-19 information is fake or not• To learn Word2Vec and gradient vector of it• To learn BERT and RNN, Deep learning NLP



Summary of the work done:	<ul style="list-style-type: none"> Looked for Covid-19 datasets cross social media, such as reddit, twitter Looked for supervised SVD which can contribute to my project NLP processing datasets, text preprocessing Collected covid-19 datasets Studied existing paper in COVID-19 fake news detection Learning NLP :language model, word embedding, topic model- part i Learning NLP :language model, word embedding, topic model- part ii Learning NLP :language model, word embedding, topic model- part iii Reviewed SIT723 week4 workshop Collected more datasets and preprocessed NLP modeling coding RNN and LSTM implemented RNN and LSTM implemented - part ii BERT implemented
Next steps:	To review work done and improve them
Overall project progress:	Contribution on Project sections of Method and Related work

Student Name	Supervisor	Project Title	Date of Activity	Duration (Minutes)	Activity Type	Short Description		
Name as registered	Primary Supervisor	Project Title	Must be in format 15/07/2021	Select from list	Select from list	Please fill out with succinct details		
Oscar WU	Daniel Ma		29/11/21	120	Other	Cloud Deakin Week 4 materials		
Oscar WU	Daniel Ma		29/11/21	120	Research Design	Looked for Covid-19 datasets cross social media, such as reddit, twitter		
Oscar WU	Daniel Ma		29/11/21	120	Literature Search	Looked for supervised SVD which can contribute to my project		
Oscar WU	Daniel Ma		29/11/21	120	Up-skilling	NLP processing datasets, text preprocessing		
Oscar WU	Daniel Ma		1/12/21	120	Research Design	Collected covid-19 datasets		
Oscar WU	Daniel Ma		1/12/21	120	Literature Review	Studied existing paper in COVID-19 fake news detection	total hrs	29.666667
Oscar WU	Daniel Ma		1/12/21	120	Up-skilling	Learning NLP :language model, word embedding, topic model- part i		
Oscar WU	Daniel Ma		1/12/21	120	Up-skilling	Learning NLP :language model, word embedding, topic model- part ii		
Oscar WU	Daniel Ma		1/12/21	120	Up-skilling	Learning NLP :language model, word embedding, topic model- part iii		
Oscar WU	Daniel Ma		2/12/21	120	Other	Reviewed SIT723 week4 workshop		
Oscar WU	Daniel Ma		2/12/21	120	Artefact Implementation	Collected more datasets and preprocessed		
Oscar WU	Daniel Ma		3/12/21	120	Artefact Implementation	NLP modeling coding		
Oscar WU	Daniel Ma		3/12/21	120	Research Design	RNN and LSTM implemented		
Oscar WU	Daniel Ma		3/12/21	100	Research Design	RNN and LSTM implemented - part ii		
Oscar WU	Daniel Ma		4/12/21	120	Artefact Implementation	BERT implemented		