Vulnerability Assignment Rubric (DATA2901-ADV)

Criteria	Ratings							
Data Import	1 to >0.5 pts Good all 5 CSV files loaded		0.5 to >0 pts Needs Improvement not all data loaded 0.75 to >0.5 pts Good tables for all data with PK and some FKs 0.5 to >0 Needs Improve incomple schema			No Marks ete no db		1 pts
DB Schema	1 to >0.75 pts Very Good good normalised sch all PKs and suitable consistent naming; s domain types							
Neighbourhood Join	2 to >1 pts Very Good correct precise matching using PostGIS and exact ABS boundaries.	spatially) in GEOM	by just nar	using builit- es on	0.5 to >0 pts Needs Improvement incomplete attempt		0 pts No Marks not done	2 pt
Own Dataset	Very Good At least one more dataset imported into DBMS (with good schema) of a type		.5 to >0.25 pts Good Inother CSV dataset lead via Python cript at runtime or lato simple schema		0.25 to >0 pts Needs Improvement incomplete attempt to integrate another data set		0 pts No Marks no own dataset	1 pts
Vulnerability Score	2 to >1 pts Very Good Vulnerability score well implemented, incl. extension if own dataset was integrated		1 to >0.5 pts Good Basic vulnerability- score as given implemented		0.5 to >0 pts Needs Improvement incomplete attempt		0 pts No Marks not done	2 pts
Indexing	1 to >0.5 pts Good More than one useful index createst one spatial index		ated; at	0.5 to >0 pts Ok ed; at At least one useful index created		0 pts No Marks no index beyond PKs		1 pts
Correlation Tests	1 to >0.5 pts Very Good score correlated to COVID-19 cases and to conducted COVID 19 tests	Goo eithe d COV	d er score col (ID-19 case lucted CO\	o >0.25 pts I score correlated to D-19 cases and to ucted COVID-19		0.25 to >0 pts Needs Improvement incomplete attempt		1 pts

Dataset & DB Description	1 to >0.75 pts Very Good all data sources briefly described and DB schema given		0.75 to >0.5 pts Good all data sources briefly described		0.5 to >0 pts Needs Improvement incomplete description	0 pts No Marks not done	1 p
Viral Risk Analysis	Very Good scoring function well described; good discussion of results ideally with			ng function with one	0.5 to >0 pts Needs Improvement incomplete description	0 pts No Marks not done	1 p
Correlation Analysis	Very Good Go correlation analysis cor		elation cribed a	5 pts analysis and stats	0.5 to >0 pts Needs Improvement incomplete description	0 pts No Marks not done	1 pi
Data Visualisation	2 to >1 pts Very Good good figures/plots plus some useful map-overlay visualisation (or equivalent) used 1 to >0.5 p Good good use of (such as p visualise at results			of figures lots) to	0.5 to >0 pts Needs Improvement incomplete or wrong data visualisation	0 pts No Marks not done	2 pt
Report Quality	Very Good great report which is in length limit, is well structured, is well written, no spelling mistakes and grammatically correct, good use of figures to visualise points,		good at mo thing could impro	report with ost three s that	0.5 to >0 pts Needs Improvement report has more than three weaknesses	0 pts No Marks no report	2 pt
Web- Scraping/Web- API				-		0 pts No Marks not done	1 p
Machine Learning	3 to >1.5 pts Very Good enriched datasets via either NLP for extracting Named Entities and their properties from (web) text, or by using M classification methods; used in Vulnerability Analysis	Good via either some M Named method properties enrich g r by using ML dataser hods; used in further		ts, but not	0.5 to >0 pts Needs Improvement incomplete approach	0 pts No Marks no report	3 pt