

Evaluation Sheet Final Project IANNWTF 20/21		Points	Bonus
General		20	10
Task complexity --- trivial   - project with code exists   established   replication study is motivated   + not course content   +(+++)new application   ++(++ ) novel design ideas		7	3
Task motivation --- not motivated   replication study   +(++ ) scientifically motivated replication study   +(+++) real life application (prototype)		4	
Organizational --- last minute support needed   --- late submission/submission problems   -- no file structure   + early communication   + clean file structure   ++clear communication		3	
Achievement --- no result   - bad result   no/bad result, but extended analysis of why   + limited success   ++ task completed   +++ task completed, analysis of reasons		6	2
Project overhead +(+++) Effort for obtaining dataset   +(+++) obtaining access to specialized equipment/hardware   +(+++) effort with obtaining human related data			5
Implementation		20	10
Code status ---- not executable   -- runtime errors, fringe case problems   ++ works smoothly   +++ runs without warnings (without surpressing etc.)		4	5
Readability ---- messy code   ---- spaghetti code   clean code   + readability in names   ++ good python style   ++ well commented   ++ good tf style		5	
Efficiency/Streamlining --- explicit inefficiencies   -- training and data preparation are not handled in parallel   + graph mode tf   +++ well executed graph mode (no eager fallbacks necessary)   +++ extended multiprocessing		4	
Code quality --- working in place mostly   -- no reusability   - unpythonic design   + usage of functions, classes, layers, models   ++ pythonic style   ++ module structure, .ipynb only where actually useful		4	5
Availability of Code and Data - publicly unavailable   publicly available (e.g. github)   +++ publicly available and usable for other users (github readme, environment available (yaml))   ++++ publically available new datasets etc.		1	
Runtime Progress tracking + User can track progress   +++ User can track progress graphically/interactively (e.g. tensorboard)		2	
Model Design & Training		20	10
General Model Design ----- inapropriate network design   primitive but correct design (e.g. vanilla cnn, vanilla mn)   ++ sound design   +++ usage of recent, advanced elements   +(++++) usage of objects of study		12	4
Optimization procedures SGD & momentum / Adam default   + Optimizer actively chosen   ++ measures against overfitting   ++ regularization techniques		4	2
Preprocessing --- no data cleaning   ensuring clean data   +++ feature extraction   +++ data enhancement   ++++ advanced data enhancement		3	2
Hyperparameter optimization - bad hyperparameters   default hyperparameters   ++ hyperparameters grounded in literature   +(++ ) hyperparameter optimization		1	2
Documentation		40	20
Task description --- incomplete   basic explanation   ++ detailed analysis of task		4	2
Summary of related approaches ----- obviously lacking content   own approach only   +++ related approaches   +++ overview over field/context		8	
Explanation of model & training choices ----- lacking, missing content   --- unscientific   basic summary, relating to theoretical background of lecture   +++scientific summary   +++scientific explanation of used parts		10	
Analysis of results and evaluation of performance evaluation --- incomplete  basic evaluation   ++ detailed analysis   ++ comparison to other approaches		8	2
Ablation studies +(++++) explanation and analysis of how different elements are responsible for success / failing			8
General Documentation --- no structure  --- erroneous writing   -- no visualizations   formal style and errorfree writing, clear structure   helpful visualizations   ++ LaTeX   +++ advanced visualizations		6	3
Scientific writing Fail: plagiarism   --- no citations   - unscientific   minimum necessary citations, vaguely scientific   ++ scientific approach/reasoning/critical approach   +++ extended citations and bibliography		4	5
Presentation +++++ participation in project presentation			
Result		100	50
100 points in total + max 50 bonus points, ++ and -- indicate the importance of criteria			