

# Assessment Form

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**Student CID:**

## Technical Ability

Correct Application 3/5

7/10

- Visualised a few different input distributions.
- Attempted to visualise the differences between the two signals by averaging each distribution and plotting them on top of each other.
- Performed an FFT.
- Implemented a CNN varying many parameters of the architecture.
- Could have used early stopping to avoid having the run further epochs after the model has converged.
- Discusses overtraining but does nothing to combat it.
- No major hyperparameter tuning.
- Would have liked to see more tuning of the network architecture and hyperparameters particularly with the large overfitting problems.
- Did a lot of reading around the topic and implemented relevant ideas.
- Tried to make the problem a 2d problem with amplitude and phase and train a 2d CNN without major success.

Coding Standards 4/5

- Good use of functions with detailed doc strings.
- Network classes are clear and easy to follow.
- Considered memory usage and removed accordingly.

## Communicating your results

9/10

- Good discussion after each step to explain what worked and what they didn't think would help moving forward.
- The network architecture is explained very clearly.
- Used TSNE visualisation to visualise separation.
- An excellent discussion at the end of the notebook.
- Correct in inclusion of bibliography.
- Plotting standards are pretty good, always clear and easy to understand

**Total**

16/20