**NeurIPS Hide-and-seek Privacy Challenge documentation questionnaire**

**Team name**

|  |
| --- |
| Mikan |

**Submission filenames(s)**

|  |  |
| --- | --- |
| Hider |  |
| Seeker | seeker\_hamada\_2020-1122-140153\_fixed.zip |

**What class of algorithms does your solution belong to?** (e.g. GANs, VAEs, noise-injection, nearest neighbor, etc.)

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| Hider |  |
| Seeker | Nearest neighbor |

**Describe your algorithm in one sentence** (e.g. “Noise is added to the original data and then this data is returned.”)

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| Hider |  |
| Seeker | Estimate by the average minimum distance between each real and generated data |

**Describe your algorithm in words** (e.g. “Noise is drawn from a Gaussian distribution, with mean 0 and variance s, where the dimension is determined by the size of the dataset. This noise is added to the original data to produce a noisy version of the dataset and this noisy dataset is then returned as the synthetic data.”)

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| Hider |  |
| Seeker | Select the half of the real data that have smaller mean values of the minimum distance between it and the generated data at each time. |

**Specify any loss functions used** (e.g. “No loss functions used.”)

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| Hider |  |
| Seeker | No loss functions used. |

**Specify any hyperparameters and how they are optimized (or preset values)** (e.g. “The noise size, s, is set to 0.1.”)

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| Hider |  |
| Seeker | None |

**Specify any pre-trained models used by your algorithm** (e.g. “None.”)

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| Hider |  |
| Seeker | None |

**Pseudo-code for your algorithm**

e.g. **Inputs:** Dataset, D, random seed

**Hyperparameters:** s (default 0.1)

1. Determine dataset dimension: n x d x T

2. Draw N ~ N(0, s), an n x d x T dimensional Gaussian

3. Return D + N

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| Hider |  |
| Seeker | 1. For each real data, compute mean value of the minimum distance between it and the generated data at each time. 2. Select half of the real data that have smaller values computed in Step 1. |

Finally, alongside this document **please also submit a commented version of your code**. Please include:

- Docstrings for each new class/function defined

- Inline comments for your main function/class

The goal of these comments is to tie the code to the description you have provided here. Please do not alter the actual content of your code - only add comments/docstrings.

**Submitting your documentation and commented code**

Please submit your commented code within a .zip or equivalent file type (1 file per solution), and share it with us as an attachment alongside this Word doc.

You can send these via email (to [nm736@cam.ac.uk](mailto:nm736@cam.ac.uk); [james.jordon@wolfson.ox.ac.uk](mailto:james.jordon@wolfson.ox.ac.uk); [es583@cam.ac.uk](mailto:es583@cam.ac.uk)) or DM James Jordon/Evgeny Saveliev on Slack (you can join the workspace [with this URL](https://join.slack.com/t/hideandseekpr-fbc8582/shared_invite/zt-k2h9xye8-RQNen128uXIG2TRsLa_ppA)).