Name

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Train/val/test split percentage

70/20/10

Selected model(s):

SVM, KNN, MLP

Hyperparameter tuning or model selection:

- Model selection:

  SVM

- Hyperparameter tuning

  KNN, MLP

Parameters and model selection

- for SVM kernel:
    - linear
    - rbf
    - poly
    - sigmoid
    - precomputed
- for KNN:
    - K= 1, 3, 5, 7, 9
- for MLP:
    - hidden layer amount= 1, 2, 3

Best model/hyperparameter

- SVM: kernel = rbf
- KNN: K = 7
- MLP: 2 hidden layer

Performance of best model on your test set (accuracy):

- SVM: 59.83%

- KNN: 58.97%

- MLP: 58.12%

Contributions:

Ting-Hsuan Lien: preprocessing, implement SVM, postprocessing

Tzu-Hsiang Kao: implement MLP, write PDF report

Cheng-Han Shen: implement KNN