# Early Diagnosis of Parkinson’s Disease via keystrokes

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**Readme**

Environment:

Anaconda Navigator 1.6.12

Python 3.6

Jupyter notebook 5.2.1

Spyder 3.2.6

Special package needed:

xgboost

To prepare to produce csv files for jupyter notebook:

* Raw data need to be in following directory:  
  data/ArchivedUsers/User\_xxx.txt (xxx is Tappy data user)  
  data/TappyData/xxx\_nnn.txt (nnn is file id for xxx user)  
  data/MIT-CS1PD/GT\_DataPD\_MIT-CS1PD.csv  
  data/MIT-CS1PD/data\_MIT-CS1PD/\*.csv (\* is file identified in GT\_DataPD\_MIT-CS1PD.csv  
  data/MIT-CS2PD/ GT\_DataPD\_MIT-CS2PD.csv  
  data/MIT-CS2PD/data\_MIT-CS2PD/\*.csv (\* is file identified in GT\_DataPD\_MIT-CS2PD.csv  
  dfData/df.csv (file prododuced)  
  dfData/nqdf.csv (file produced)  
  dfData/\*.csv (various files for exploratory)
* In same level as data directory, there should be:  
  prepare.py (execute this to obtain df.csv  
  prepareNQ.py (execute this to obtain nqdf.csv)  
  constants.py  
  funcs.py  
  mytappy.py

Jupyter notebook:

* ParkinsonDiseaseKeystroke.ipynb
* PD\_exploration.ipynb

Report and proposal:

* ChinCapstoneProjReadme.docx (this document)
* ChinCapstoneProjReport.docx (project report)
* ChinCapstoneProposal.docx (project proposal)

Github:

* https://github.com/cteeeri/parkinson\_keystroke.git