Early Diagnosis of Parkinson's Disease via keystrokes

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Readme

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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 cen be found:
      Tappy data:
      https://physionet.org/physiobank/database/tappy/Archived-Data.zip
      https://physionet.org/physiobank/database/tappy/Archived-users.zip
      NQdata: https://physionet.org/physiobank/database/nqmitcsxpd/neuroQWERTY.zip
   • 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 ngdf.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