personalized chatbot (dhap)

# library link

<https://github.com/zhengyima/DHAP>

One Chatbot Per Person: Creating Personalized Chatbots based on Implicit User Profiles

# basic description

It is a paper submitted to SIGIR 2021, the Top-Tier conference in September 2021, and is a model DHAP that allows you to have personalized conversations with chatbots using the Implicit user profile.

# version

* Refer to requirements.txt

# dataset

* Pchatbot conversation data set

<https://github.com/qhjqhj00/SIGIR2021-Pchatbot>

* Pre-trained word embedding

<https://drive.google.com/drive/folders/1UqUNtO5SVjyYTERfi4IvVTHopjFtqNNO>

# code description

* code for implementing a model that enables personalized conversation between a chatbot and a user through an implicit user profile.
* Do it in the order below.
* git clone https://github.com/zhengyima/DHAP.git DHAP
* cd DHAP
* pip install -r requirements.txt
* After downloading the pre-trained word embedding file from Google Drive and change its path to EMB\_FILE in scripts/train\_chat.
* Additional datasets are downloaded from the Pchatbot dataset link and put into the data file.
* Execute bash scripts/train\_chat.sh.
* File information
* Data folder: a forder containing datasets.
* Scirpts folder: a folder with shell file.
* Seq2seq folder: a folder containing model code.
* configParser.py: code containing parameter information.
* evaluate.py: a code containing the evaluation method.
* runModel.py: a code for model learning and execution.

# validation

* Automatic evalution: valdation based on evaluation indicators such as BLEU, ROUGE.
* Human evaluation: verification by direct evaluation of a person.
* Validaiton by running eval.sh.