



# iTechQnA

## Quick User Guide

Bought to you by:

**Chng Yan Hao**

**Lim Kah Ghi**

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### 1) Requirements & Built

- i. Application is built under Windows 10 Pro OS
- ii. Python 3.9.5
- iii. Packages
  - 1) - System and files handling : os, sys, shutil, pickle
  - 2) - Numbers : pandas, numpy, math, collections
  - 3) - Text handling, Language : re, spacy, nltk
  - 4) - Models : sklearn, tensorflow + keras (ver == 2.6.0)
- iv. Download iTechQnA.zip
- v. Directory must not contain space in the path

### 2) Deployment

- i. Allow python to run from CMD.
  - i.e. Windows OS: System properties -> Environment Variables -> Path -> Edit environment variable (Python path required)
- ii. Unzip iTechQnA.zip to any preferred location.  
Click on run.bat to start. (Windows OS)  
>> python iTechQnA.py (Mac OS)

### 3) Successful load

On successful installation and loading:

```
C:\WINDOWS\system32\cmd.exe
<<<Welcome to iTechQnA 2021, developed by NUS-ISS MTech IS AI Apprentices>>>

iTechQnA takes Python-related questions using Python,
returning best found answers using samples from StackOverflow corpus (2018-2021/06)

iTechQnA has 4 components:

1. Is Python Classifier --- tfidf + SVM model
2. Tags Classifier --- BiLSTM Encoder / LSTM Decoder Sequence to Sequence model
3. Basic ROOTS & dObj Extraction --- Rule-based by word token dependency (NLP)
4. Text Summary --- Using manually built transformer

Available on https://github.com/RyanChngYanHao/PLP-PT-CNI-2021-07-24-EBA5004-GRP-iTechQnA

May I get your Python-related question?
[Enter] + Ctrl-Z/D + [Enter] to submit:
```

Follow through the conversation flow! Happy using!

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