Nanyang Technological University
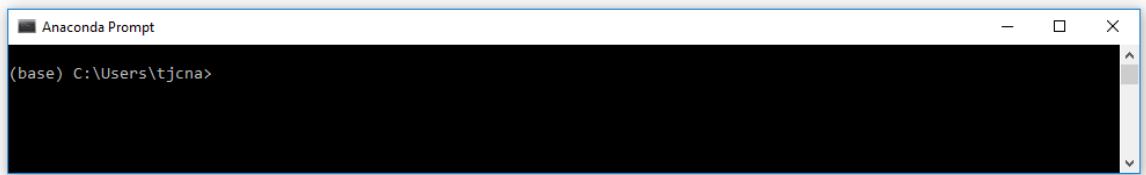# IS6751 Text and Web Mining
Lab: Classifying Surnames with a Multilayer Perceptron

In this lab, you will learn the basic steps of surnames classification with Multi-Layer Neural Networks.

Update ipywidgets if progress bars do not appear when you are training a model.

Start | Anaconda3 | Anaconda Prompt

Type the following command

```
>>> conda update ipywidgets
```

1. Running the Jupyter Notebook

1.1. Copy the **notebook files** downloaded from the class website to
C:\Users*youraccountname*\documents\python\IS6751

1.2 Open a Jupyter Notebook: Data Preparation

- File – Open …, **munging_surname_dataset-v2.ipynb** in
  C:\Users*youraccountname* \documents\python\IS6751\wk6-mnn-chapter_4
- Run the notebook document step-by-step (one cell a time)

1.3 Open a Jupyter Notebook: Surname Classification

- File – Open …, **4_2_Classifying_Surnames_with_an_MLP-v4.ipynb** in
  C:\Users*youraccountname* \documents\python\IS6751\wk6-mnn-chapter_4
- Run the notebook document step-by-step (one cell a time)