Python for Data Science

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About me



Sirakorn Lamyai

- DAKDL Laboratory, Kasetsart University
- Research Assistant Intern, 2019, Vidyasirimedhi Institute of Science and Technology
- Research Assistant Intern, 2018, Vidyasirimedhi Institute of Science and Technology
- Love drinking tea
- Knows a little about Python

I know a little about Python

When I say I know a little about Python...

- I think there's some better methods than I'm using
- I think I do sometimes make mistakes
- There are tons of people who know things much more than me
- I think there's much more for me to learn!

Prerequisite

A basic Python knowledge will do!

Your expectations from this talk

Outline

Data Science

Data Science

The Data Science Process: OSEMNI

- Obtain data from relevent sources
- Scrub, sanitise, and clean the data into machine-understandable formats
- Explore significant and meaningful patterns with statistical methods
- Model construction for prediction and forecast
- iNterpret and use the results obtained
- Interate and rethink about your outputs









Data is the new oil

Tools for data analysis

With GUIs

- Spreadsheets
 - Excel
 - Google Spreadsheets
 - Lotus 1-2-3
- Modelling and Visualisation
 - RapidMiner Studio
 - Weka
 - Tableau

As programming languages

- For data insights
 - R
 - Python
- For data retrieval
 - SQL