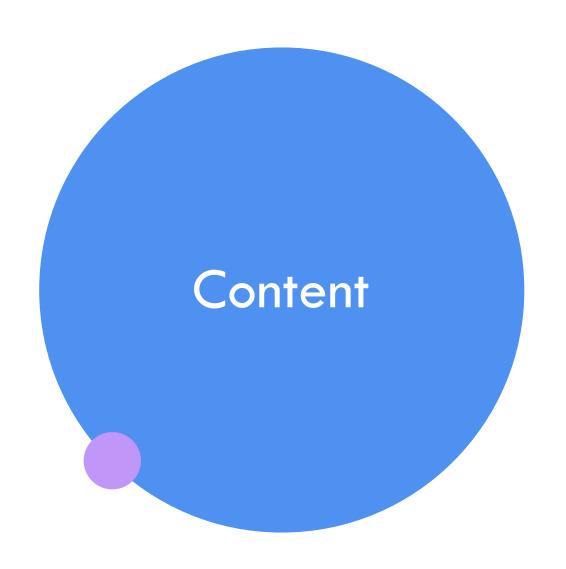


- Chapter I
- Chapter II
- Chapter III

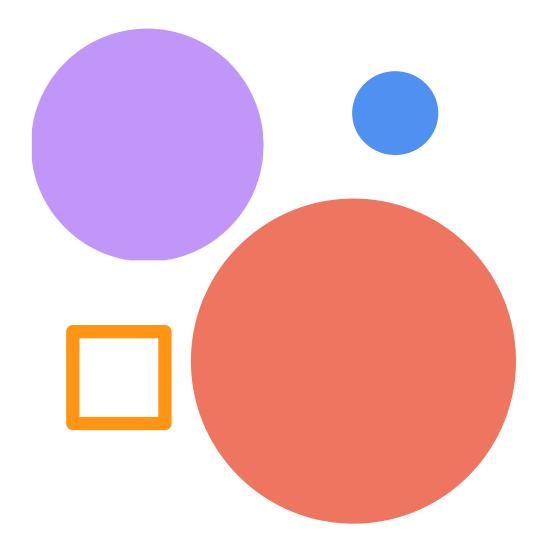




Chapter I

- Overview.
- Problem Statement.
- Objective of Research.
- Scope.
- Significance of Study.
- Software and Hardware Are Requirement.

Overview

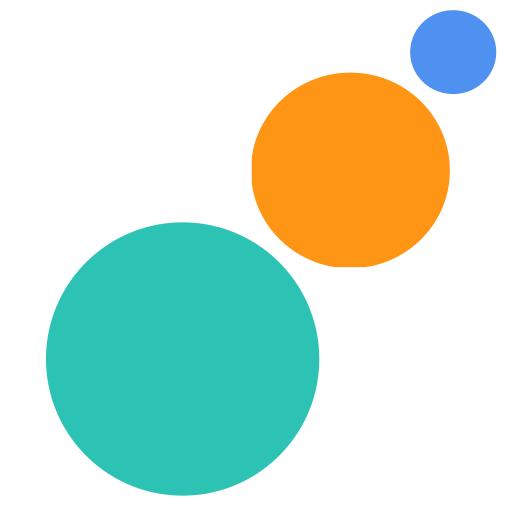


Problem Statement

Objective of Research

- To use the machine learning to categorize news and deployment by using technique of data visualization and data storytelling.
- To visualize the categorized news into news timeline visualization in form of data storytelling on a web application.

Scope



Significance of Study

Developer

- To gets technique skill of data analysis in term of using machine learning to apply with news categorizing.
- To deployment the result on web application by using python.

User

- User can follow the trend of news are viral in social during that time.
- User gets quick access to relevant news and topics of interest.

Software Requirement

Resource

News from Bangkok post agency website.

Data Mining Process

- Python
- Jupyter Notebook
- Data Mining Libraries
 - Requests
 - Beautiful Soup 4
 - Pandas
 - NumPy
 - re (Regular Expression)

Software Requirement

Data Visualization Process

- Web Application Language
 - HTML
 - JavaScript
 - Css
 - Python
- Data Visualization Libraries
 - Django
 - Matplotlib
 - Seaborn

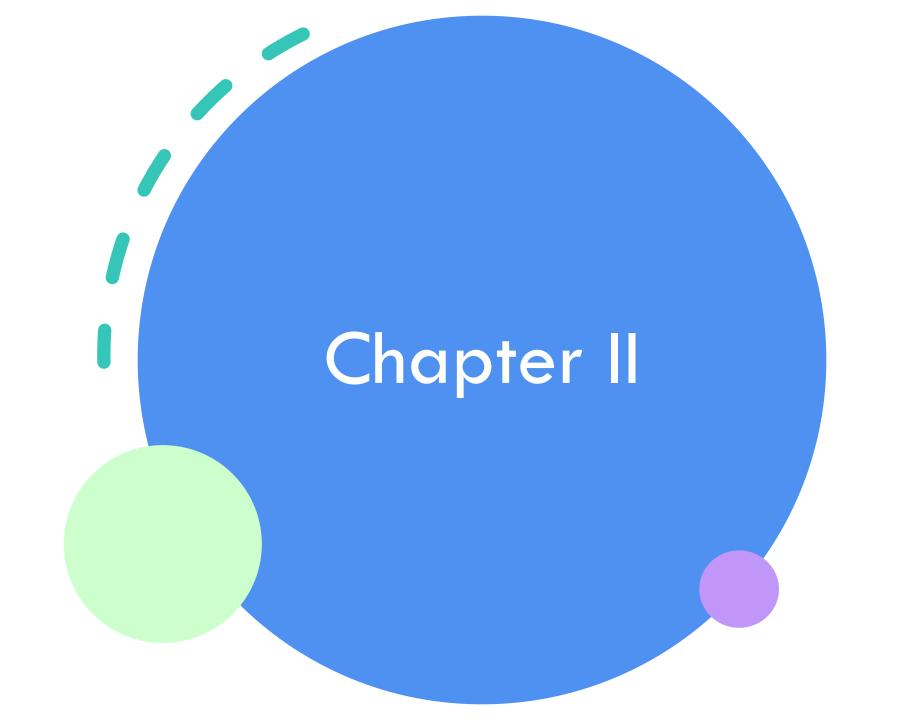
Data Base

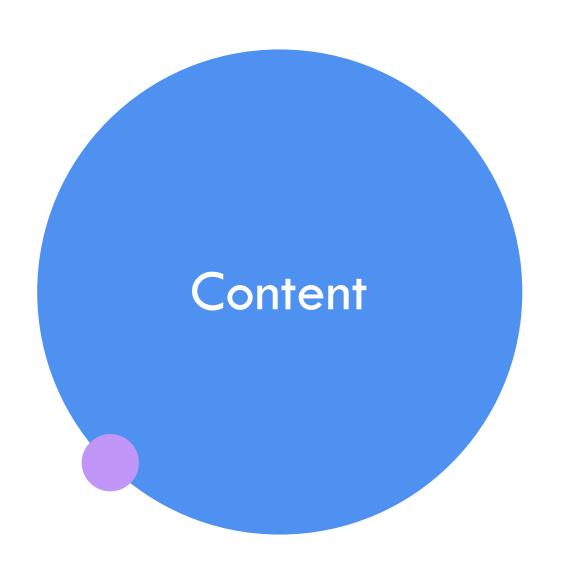
- MySQL
- Data Integration Format
 - JSON

Hardware Requirement

Personal Computer

- Asus VivoBook 15 x512da
- HP Pavilion Power 15-cb035TX





- Chapter II
 - Definition.
 - Machine learning.
 - Infor of software/hardware in dev of system.
 - Relate works

Chapter II

Code Editor

• Jupyter Notebook.

Machine Learning

- Classification.
- Naïve Bayes Classifier.

Tool

Chapter II

Definition

- News Categorization.
- Automated News Categorizer.
- Data Visualization.

Data Mining Libraries

- Requests.
- Beautiful Soup 4.
- Numpy.

Chapter II

Machine Learning

• Scikit-Learn

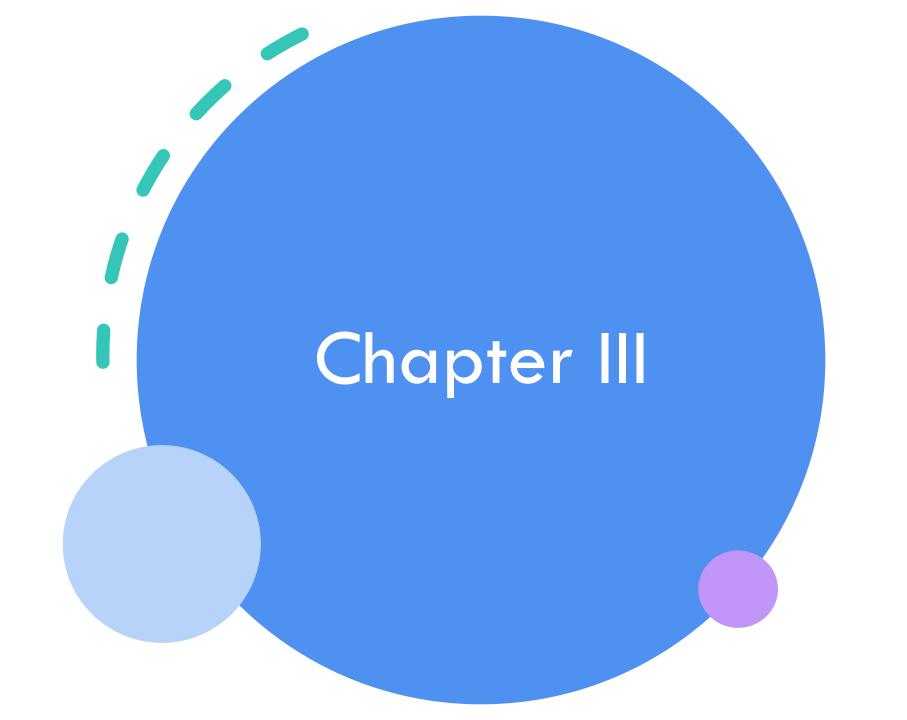
Relate works

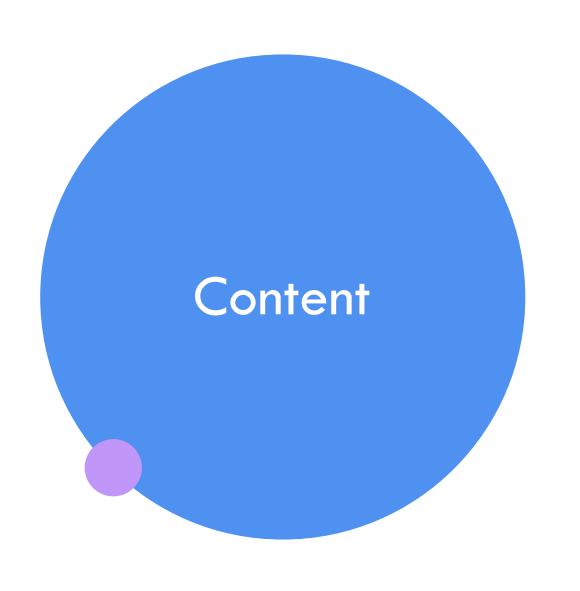
Chapter II

 Automated Semantic Categorization of News Headlines Using Ensemble Machine Learning: A Comparative Study. (Bogery et al., 2019)

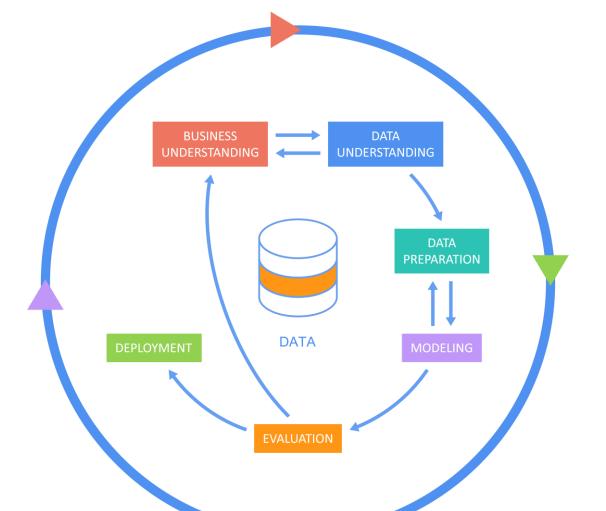
 A COMPARATIVE ANALYSIS OF NEWS CATEGORIZA-TION USING MACHINE LEARNING APPROACHES. (Deb et al., 2020)







- Chapter III
 - CRISP-DM



CRISP-DM

16/3/2021 Three chapter Presentation

Business Understanding

- 3.2.1.1. Determine Business Objectives.
- 3.2.1.2. Assess Situation.
- 3.2.1.3. Determine Data Mining Goals.
- 3.2.1.4. Produce Project Plan.

Data Understanding

3.2.2.1. Collect Initial Data.

3.2.2.2. Describe Data.

3.2.2.3. Explore Data.

3.2.2.4. Verify Data Quality.

Data Preparation

3.2.3.1. Select Data.

3.2.3.2. Clean Data.

Modeling

- 3.2.4.1. Select Modeling Techniques.
- 3.2.4.2. Generate Test Design.
- 3.2.4.3. Build Model.
- 3.2.4.4. Assess Model.

Evaluation

- 3.2.5.1. Evaluate Results.
- 3.2.5.2. Review Process.
- 3.2.5.3. Determine Next Steps.

Deployment

3.2.6.1. Plan Deployment.

