



Automated News Categorizing

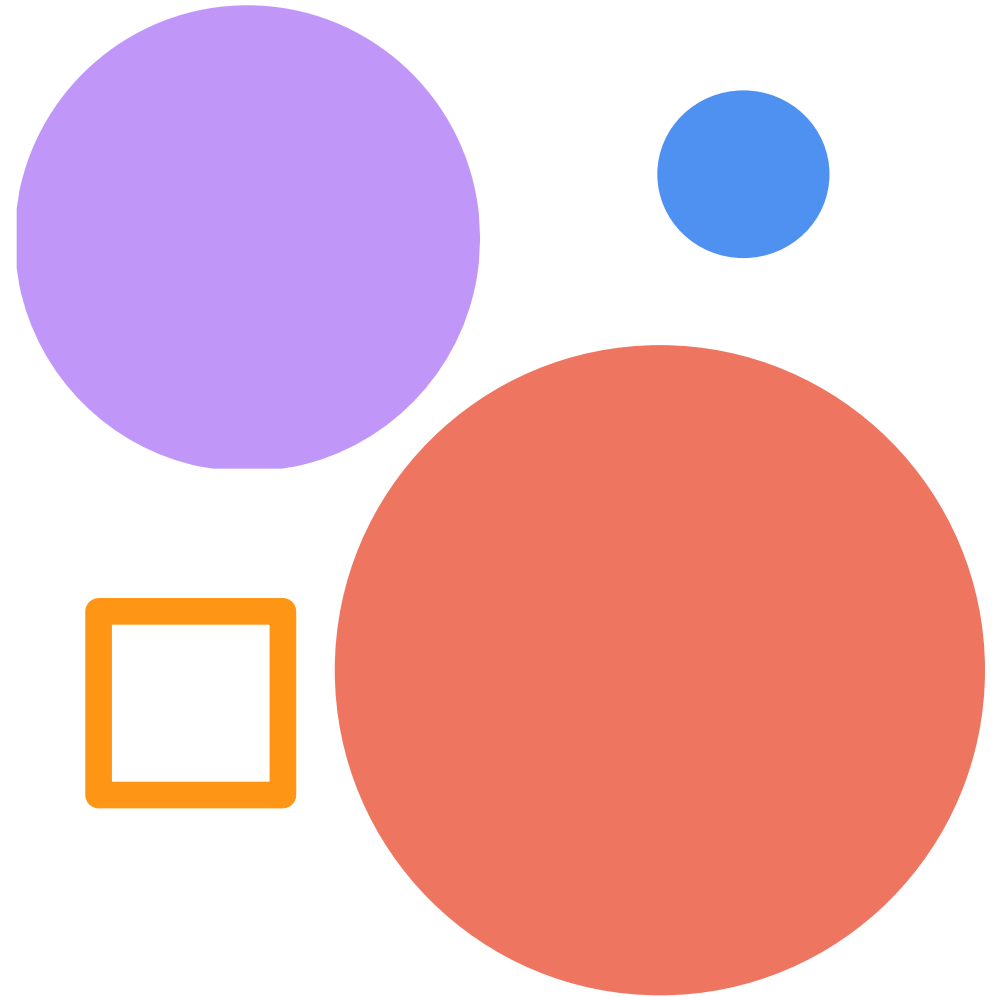
Proposal Title Presentation



Content

- Overview
- Problem Statement
- Objective of Research
- Scope
- Significance of Study
- Software and Hardware Are Requirement
- Relate Work
- Methodology

Overview



Problem Statement

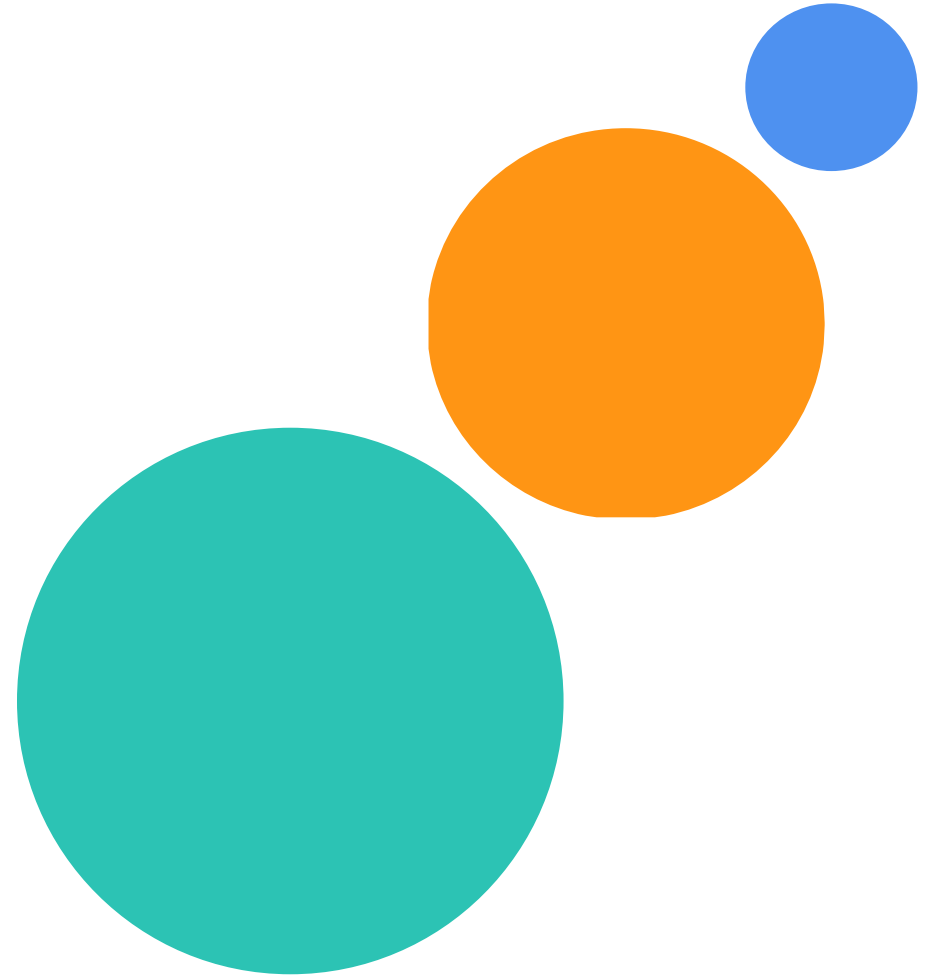




Objective of Research

- 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 and
Hardware are
Requirement

Software Requirement

Resource

- News from Bangkok post agency website.

Data Mining Process

- Python
- Jupyter Notebook
- Data Mining Libraries
 - Requests
 - BeautifulSoup 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



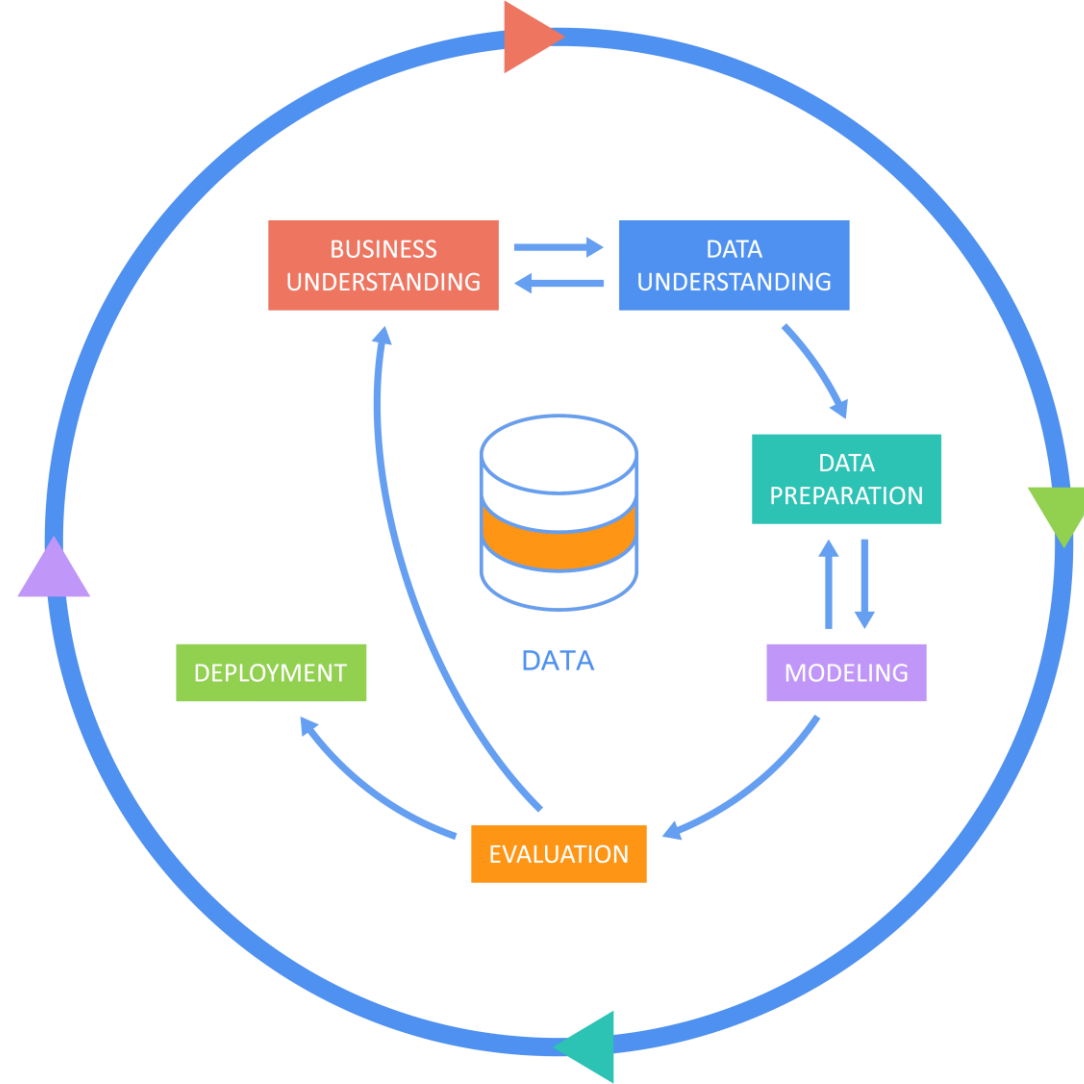
Relate Work

- Automated Semantic Categorization of News Headlines Using Ensemble Machine Learning: A Comparative Study. (Bogery et al., 2019)
- Automated Text Tagging of Arabic News Articles Using Ensemble Deep Learning Models. (Elnagar et al., 2019)



Methodology

CRISP-DM



Methodology

Business Understanding

Categorizing news automatically by using machine learning SVM (Support Vector Machine).

Data Understanding

- Resource
 - Bangkok post agency website.
- File extension
 - JSON.

Data Preparation

NLP (Natural Language Processing).

Methodology

Modelling

SVM (Support Vector Machine).

Evaluation

Model Evaluation.

Deployment

Web Application.

A large white circle is centered on a solid blue background. To the left of the circle, there is a series of seven light blue dashed lines forming a partial arc. At the bottom right of the white circle, there is a small solid orange circle.

Thank You :)