DeepHeart

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AI Sentiment Classification on Chinese Text

TECHNIQUES

- **Programming Language**
  - Python
  - SQL
- **Database**
  - MySQL
  - MongoDB
- **Data Processing**
  - Requests-HTML
  - Beautifulsoup
  - Tableau
- **AI Model**
  - Deep Learning
  - TensorFlow
  - Bert
- **Front-End Application**
  - Unity
  - LineBot
  - W3CSS
  - Flask
- **Cloud Environment**
  - AWS
  - GCP
  - Docker
  - Heroku

TEAM

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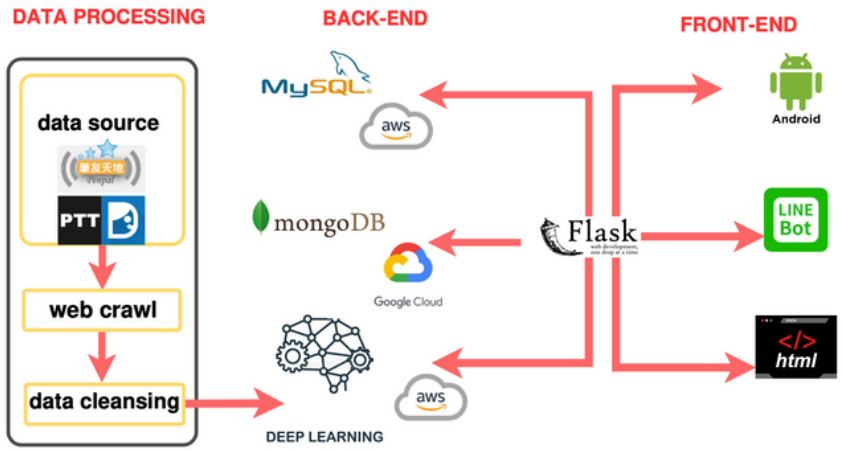
PROJECT OBJECTIVE

We aim to develop applications that allow users to express their emotions through writing diaries. An AI model would classify the diaries into different types of sentiments, which enables the users to become more aware of their emotional state.

STRUCTURE CHART



DATA & MODEL BUILDING

Collected diary-like data from online forums using web crawler with python Beautifulsoup packages. Cleansed the data before building a model with the deep learning algorithm Google BERT. Utilised visualisation tools to analyse data features and model performance.

DEPLOYMENT

Front-end applications include Android App, website, LineBot. Set MySQL on AWS EC2 to store user data. Set MongoDB on GCP VM to store user diary input. Connected front-end with back-end using Flask.