**Architecture**

News Articles Sorting

## 

# **Training Model and Save**

# 

**Start**

**Load Articles Data**

**Make text Smaller Case**

**Remove Stop Words, Punctuations**

**Decontract Texts**

**Lemmatize Texts**

**Feature Engineering (TF-IDF)**

**Model Building**

**Save Model and TF-IDF Vector**

**END**

# **Python Module**

**Receive article as argument when function call**

**Load Model and TF-IDF Vector**

**Make Text Smaller Case**

**Decontract Texts**

**Remove Stop Words, Html, Url, Punctuations**

**Lemmatize Texts**

**Convert to TF-IDF Vector**

**Predict**

**END**

**Return Prediction**

**Start**

**Load Model and TF-IDF**

# **Rest API**

**Receive sentence from user as request**

**Load Model and TF-IDF Vector**

**Make Text Smaller Case**

**Decontract Texts**

**Remove Stop Words, Html, Url, Punctuations**

**Lemmatize Texts**

**Convert to TF-IDF Vector**

**Predict**

**END**

**Response Prediction**

**Start**