**Intent Classification**

**Base Papers:**

1. <https://www.aclweb.org/anthology/W19-5906.pdf>
2. <https://arxiv.org/abs/2011.00564>
3. <https://ieeexplore.ieee.org/document/8910417>

**Bot Frameworks:**

* Microsoft LUIS
* Google Dialog flow
* **RASA**
* Amazon Alexa
* IBM Watson

**Intent Classification Algorithms:**

* RNN-based
* Attention-based
* transformers models
* static word embeddings
* contextualized word embeddings
* LSTM
* BERT

**Dataset:**

* ATIS (Airline Travel Information System)
* MEDIA - conversation between a tourist and a hotel representative
* MIT corpus - movie or actor, searching or booking a restaurant (Movie, Restaurant)
* SNIPS - weather, playing a song, book a restaurant, asking for a movie schedule
* Facebook -multi-lingual dataset

**Performance Measure:**

* Accuracy
* F1-score

**Additional References:**

1. https://www.searchenginejournal.com/automated-intent-classification-using-deep-learning-part-2/318691/#close
2. https://chatbotslife.com/know-your-intent-sota-results-in-intent-classification-8e1ca47f364c
3. https://botfront.io/blog/how-intent-classification-works-in-nlu
4. https://paperswithcode.com/task/intent-classification/latest#code

**Project Work:**

To implement the **BERT, LSTM, Attention-based** intent Classification algorithms by using **RASA or IBM** **Watson** chat framework for basic **Financial Dialogue systems** (utterance) with comparing the performance of **ATIS and SNIPS** dataset.