NLP Course Outline

Sessions-1: Introduction to NLP and text classification

- Introduction
- Text preprocessing
- BeautifulSoup (Later)
- Tokenization
- Lemmatization and stemming
- Feature extraction
- Sentiment analysis
- Spam filtering
- Named entity recognition

Sessions-2: Word embedding

- Word2vec
- CBOW
- Skip gram , Word Cloud
- Glove
- Document similarity

Sessions-3: Web Scraping

- Information retrieval from social media
- Working with Beautiful soup
- Hands on case study

Sessions-4: Sequential Models

- Definition
- RNN
- LSTM
- GRU
- Encoder-decoder
- Hands-on - LSTM
- Applications of LSTM

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Sessions-5: Advanced topics

- Neural Machine Translation
- Transformers
- BERT
- XLNet

Sessions-6: Case study