Teaching philosophy

Talk is cheap. Show me the code

CSC3160: Learning progression

Basics of language
- Regular expression and text processing
- Morphology and parts-of-speech
- Syntax in a nutshell

Lecture 6-8, assignment 2

Applications
- Sentiment analysis
- Speech recognition and synthesis
- Machine translation
- Question answering and Chatbot

Lecture 13-24

Basics of speech processing
- Read and analyze spectrogram
- Use tools to extract spectrogram
- Basic phonetics knowledge
- PyTorch/TorchAudio

Lecture 1-5, assignment 1

Language models and embedding
- N-gram language models
- Neural language models
- Word embedding, word2vec, etc

Lecture 9-12, assignment 3

Project
- Skills to build a SLP system
- How to write a technical report
- Skills to present your project to professional experts

Final project