Course Outline

AI for Text Processing

Course Summary

Description
This course addresses the need for smart software for text processing

Topics
- AI overview
- Text processing elements
- AI with TensorFlow and Keras

Audience
The course is intended for Software Architects and Engineers.

Prerequisites
- Familiarity With Any Programming Language
- Be Able To Navigate Linux Command Line
- Basic Knowledge Of Command Line Linux Editors (Vi / Nano)

Duration
Three Days
Course Outline

I. *AI overview*
   A. A brief history of AI
   B. Types of AI systems
   C. Training machine learning models
   D. Applying models for prediction
   E. Demos and Labs

II. *Text processing elements*
    A. TF-IDF
    B. Word2vec
    C. Tokenizers, n-grams
    D. Stopword removal
    E. Text processing pipelines

III. *AI with TensorFlow and Keras*
    A. Google democratization of AI with TensorFlow
    B. Types of neural network (Perceptron, CNN, RNN) and their use
    C. Text processing with TensorFlow
    D. Use cases and labs