

## AI for Text Processing

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### 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

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### 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