ProTech Professional Technical Services, Inc.



AI for Text Processing

Course Summary

Description

This course addresses the need for smart software for text processing

Topics

- Al overview
- Text processing elements
- Al 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

Due to the nature of this material, this document refers to numerous hardware and software products by their trade names. References to other companies and their products are for informational purposes only, and all trademarks are the properties of their respective companies. It is not the intent of ProTech Professional Technical Services, Inc. to use any of these names generically

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Course Outline

I. Al 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