SEARCH ENHANCEMENT USING NATURAL LANGUAGE PROCESSING

Overview
Natural Language Processing (NLP) helps computers gain a deeper understanding of human language by adding context and structure. With NLP, your search solution can return better results because it can better interpret what you're asking it to find (searches for "big data lake" shouldn't return Lake Tahoe). This instructor-led course will teach you how to integrate and use NLP in your search applications. After exploring Part-of-Speech (POS) tagging, Named Entities Recognition (NER), and the Openlp ingest pipeline, you will learn how to design and configure your applications to support those features and build better search in your own use case. After completing this course, you will be able to use NLP to improve the relevancy of your search engine.

Audience
Data Scientists, Data Architects, Data Engineers, Software Developers

Duration
Virtual Classroom - 1 day | 2-3 hours

Language
English

Prerequisites
- We recommend you have taken Elasticsearch Engineer I and Elasticsearch Engineer II or possess equivalent knowledge. Engineer I and Engineer II teach the concepts that are the foundation upon which all specializations are built.
- Knowledge of Python programming and NLP is recommended

Requirements
- Stable internet connection
- Mac, Linux, or Windows
- Latest version of Chrome or Firefox (Safari is not 100% supported)
- Due to virtual classroom JavaScript requirements, we recommend that you disable any ad-blockers and restart your browser before class.
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Modules

Overview
• Natural language Processing is a complex topic. In this module we are going to see how it can be used in order to make your search more efficient.
  • Hands-on Lab

NLP
• This unit will cover the basic of the NLTK Python library and the theory behind topic like part-of-speech (POS) tagging and entity recognition.
  • Hands-on Lab

Ingest OpenNlp
• Learn how to use and configure the OpenNlp ingest pipeline to handle NLP and boost your search.
  • Hands-on Lab

Enhanced Search
• Learn how to integrate and use NLP to enhance your search abilities and performance.
  • Hands-on Lab