GRAPH+AI
SUMMIT

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Creating a Semantic Graph from Medical Documents

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Introduction

Akash Kaul

❏ Former Developer Advocate Intern at TigerGraph

❏ Pursuing BS in computer science at WashU

❏ Background in data science and graph technologies

Objectives

❏ Create an NLP pipeline for medical texts using scispaCy

❏ Model entity and text relationships with TigerGraph

❏ Leverage graph for deeper insights

  ❏ Similarity Search

Named Entity Recognition

❏   NLP technique for extracting entities (objects)

❏   Entities separated into categories

❏   Can train models for specific NER use-cases

When Sebastian Thrun **PERSON** started working on self-driving cars at Google **ORG** in 2007 **DATE** , few people outside of the company took him seriously.

Sample NER output from spaCy documentation page

What is scispaCy?

❏ Python package for processing medical text and articles

   ❏ Derived from spaCy NLP Library

❏ Several pretrained NER models

Workshop

Resources

- [GitHub Repository](#)
- Blog Tutorials:
  - [Part 1](#)
  - [Part 2](#)
  - [Part 3](#)
  - [Part 4](#)
- [scispaCy](#)
- [CORD-19 Dataset](#)

Questions