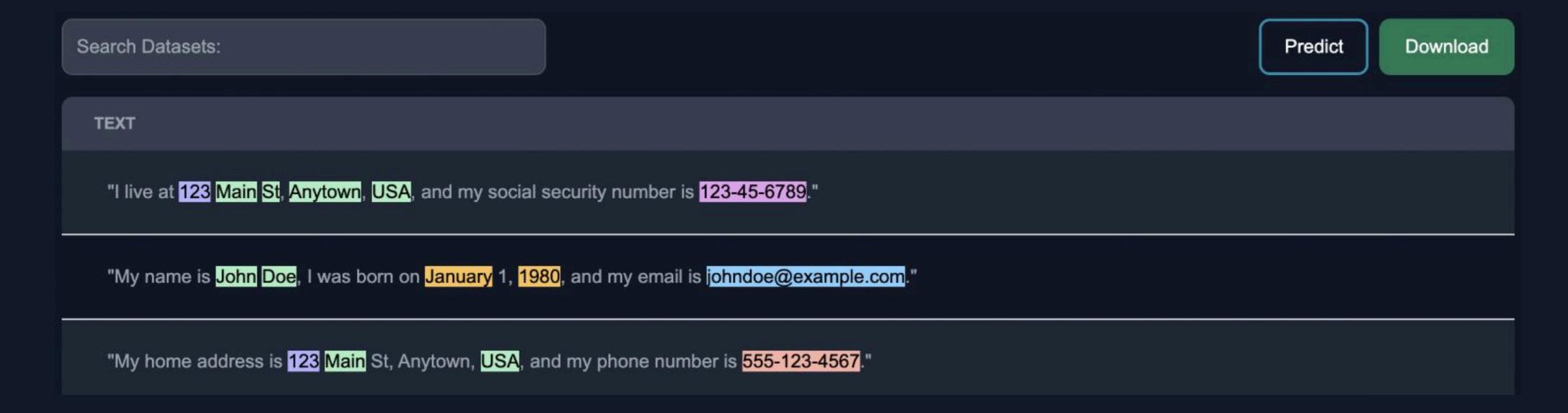# Named Entity Recognition

Anote   Presented by Henry Toll

What is Named Entity Recognition?

Named Entity Recognition (NER) is a natural language processing (NLP) technique that aims to locate and classify named entities in text into predefined categories. Named entities refer to real–world objects such as persons, locations, organizations, dates, and more.

Search Datasets: Predict   Download

TEXT
"I live at 123 Main St, Anytown, USA, and my social security number is 123-45-6789."
"My name is John Doe, I was born on January 1, 1980, and my email is johndoe@example.com."
"My home address is 123 Main St, Anytown, USA, and my phone number is 555-123-4567."

Pre-Trained NER Models

SpaCy

SpaCy is an open-source library for advanced NLP in Python

Stanford NER

Stanford NER is developed by the Stanford NLP Group

Flair

Flair is a simple NLP library that allows you to use pre-trained models for a variety of tasks, including NER.

The Problem

For Pre-Trained NER models, it is really difficult to obtain accurate results for domain specific entity recognition tasks, which is critically important for business use cases such as identifying PII in text data to ensure privacy

The Goal

Label Data to train LLM models that can accurately predict entities on your own custom datasets, in a way that we can evaluate

Evaluation

Precision

The accuracy of the entities predicted by the model

Recall

The ability of the model to find all relevant entities

F1 Score

A harmonic mean of precision and recall

IOU

Intersection over Union measures the number of correctly predicted characters divided by the total characters

Product Demo