# Natural Language Search

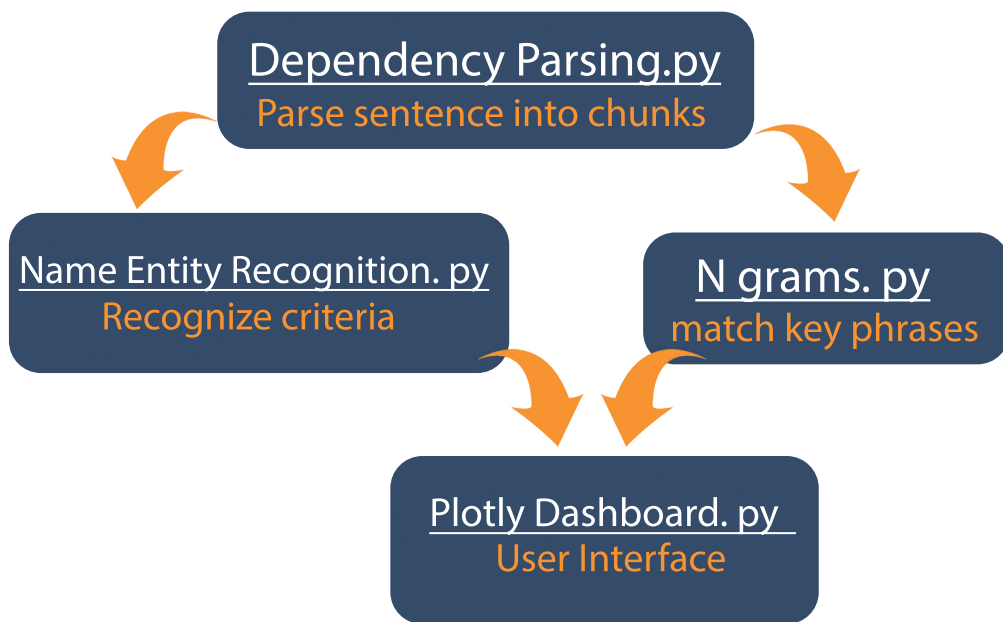*Help PitchBook Clients Improve Company Search Experiences*

## What is Natural Language Search (NLS)?

> A one-step general search function that fetches target criteria based on a single search sentence user typed in, and returns company results from database.
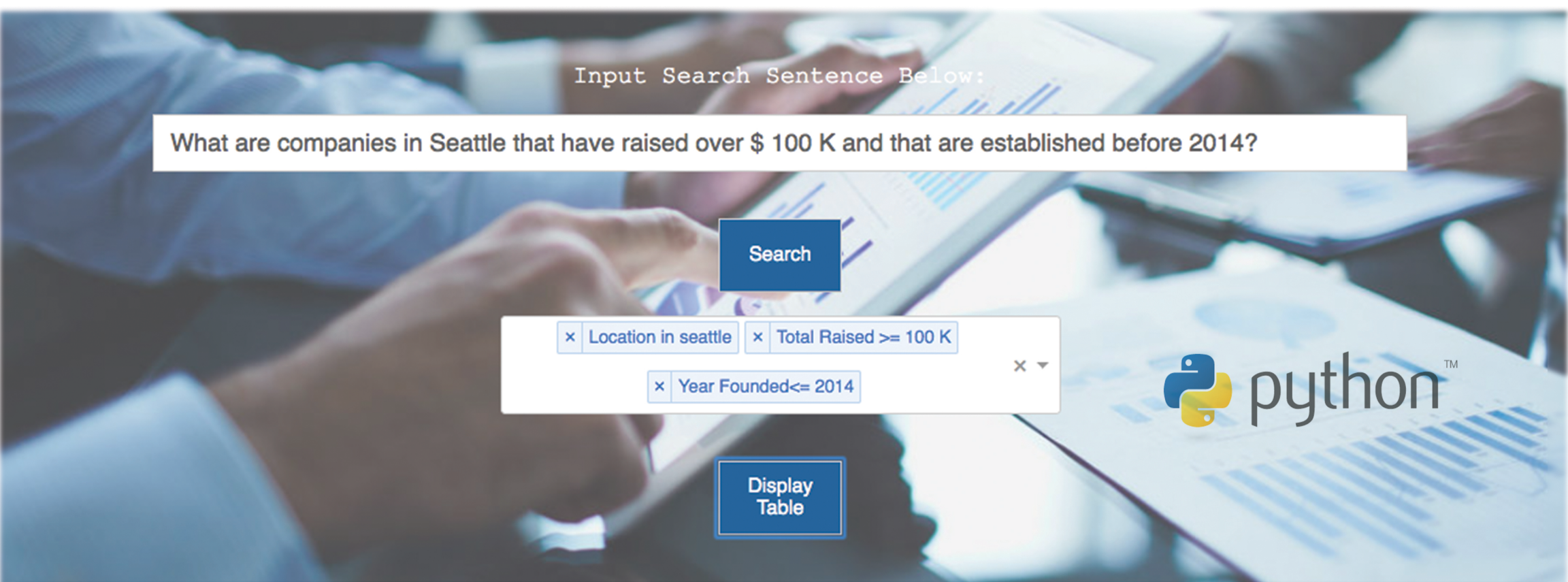
*Can I search company data by just asking a one sentence question?*

## How NLS works?

**Dependency Parsing.py**
Parse sentence into chunks

**Name Entity Recognition. py**
Recognize criteria

**N grams. py**
match key phrases

**Plotly Dashboard. py**
User Interface

intel capital  canaan partners  KPMG
Microsoft  KeyBank  etc.

## How does final NLS dashboard look like?

Input Search Sentence Below:

What are companies in Seattle that have raised over $ 100 K and that are established before 2014?

Search

× Location in seattle   × Total Raised >= 100 K
× Year Founded<= 2014                          × ▼

python™

Display Table

Filter Rows

| Year Founded | Company Former Name | industry | Location | Company Financing Stat | Total Raised | Company Name |
|---|---|---|---|---|---|---|
| 2004 | Advantage Solutions | ['financial software', 'tmt', | Seattle,Washington,North | Formerly VC-backed | 574.5 | Avalara (NYS: AVLR) |
| 2002 | Appliance Computing | ['tmt', 'application softwar | Seattle,Washington,North | Formerly VC-backed | 305.54 | Redfin (NAS: RDFN) |
| 2000 | None | ['tmt', 'electronic compon | Seattle,Washington,North | Formerly VC-backed | 235.14 | Impinj (NAS: PI) |

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