



# AI Talent Search

Developer Documentation

## Introduction

Welcome to AI Talent Search, the cutting-edge, AI-driven, recruiting solution tailored to streamline your talent acquisition process. AI Talent Search pairs best-in-class search with millions of candidate profiles at your fingertips. Leveraging AI Talent Search will translate into valuable time savings while sourcing candidates for job opportunities for your company or organization.

## API Endpoints Overview

AI Talent Search introduces several pivotal endpoints to provide a seamless and efficient candidate search experience. Here, we cover the four key endpoints:

### **/query**

This endpoint accepts a query along with the retriever and reader optional parameters and returns the list of search results.

### **/get\_similar\_titles**

This endpoint takes a base job title and leverages OpenAI GPT-4 to generate a comprehensive list of similar and popular job title variations. This list can be used to ensure your search encompasses all relevant job titles.

### **/query\_with\_title**

With the list of job title variations obtained from the /get\_similar\_titles endpoint, you can use this endpoint to perform a refined search. It accepts the list of job titles along with your search query to return finely tuned results.

### **/resume\_summarization**

This endpoint summarizes a given resume or profile using OpenAI GPT-4 and BERT Transformers.

## API Endpoint Specification

Users purchasing a subscription of the product will receive a welcome email from PeopleCaddie that includes the API reference guide and the OpenAPI Specification. This guide specifically demonstrates how to authenticate with and interact with the API endpoints to enable semantic searches, zone in on specific job titles, and conveniently summarize candidate profiles.

## Technical Glossary & Terms

This section offers more context on some of the differentiated elements encapsulated in our AI Talent Search solution.

### **Retriever Reader Framework**

The Retriever Reader framework is implemented to improve search results. It comprises two main components:

- **Retriever:** It performs an initial broad search to retrieve a list of relevant documents.

- **Reader:** It performs a more detailed analysis to find the exact answer to a query within the retrieved documents.

### **BERT Transformer Models**

BERT (Bidirectional Encoder Representations from Transformers) is utilized within AI Talent Search to understand the contextual relationships between words in text data, enhancing the search and matching capabilities.

### **Semantic Search vs Traditional SQL-Powered Search**

- **Semantic Understanding:** Unlike SQL-powered search, semantic search understands the context and meaning of terms, providing more relevant results.
- **Flexibility:** Semantic search is flexible to natural language queries, whereas SQL requires precise syntax.

## **Support**