

TECHNICAL SPECIFICATIONS

Al Matching Engine

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Sovren has the most robust AI matching engine because we've spent decades perfecting it. Our engine's technical specifications are detailed below so you can see exactly what to expect when using our premier matching technology – from integration to output.

| Deployment | 100% Cloud-hosted solution. | | |
|-------------------------|---|------------------|--|
| Integration | Available as a cloud-based service via a SOAP API or via a RESTful API. | | |
| Stability | Built-in monitoring to automatically detect and repair corrupted indexes. Data is automatically partitioned for performance and archiving. | | |
| Scalability | Runs on Amazon AWS, scales both vertically and horizontally and has no document limits. | | |
| Input Formats | Parsed document input supported in JSON or XML format. | | |
| Compatibility | The Sovren AI Matching Engine works with the Sovren Resume Parser and the Sovren Job Order Parser to provide advanced matching capabilities between a source document and candidates. | | |
| Distinctive Features | Our engine leverages our proprietary Al Matching algorithm that uses profiles rather than keywords. It's the only engine that allows hybrid Boolean/Semantic searches. | | |
| Configurable Categories | Each matching transaction has a user-configurable set of categories that influence the overall score, which allows the engine to be fine-tuned to better serve applications across multiple industries. | | |
| | Categories include: | | |
| | Certifications | Languages | |
| | Education | Management Level | |
| | Employers | Skills | |
| | Executive Type | Taxonomies | |
| | Job Titles | Experience Range | |
| Transaction Output | Output includes a list of results ordered in descending order of the overall score. Scores are broken out by category for each match and include analysis messages that describe a transaction. | | |

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| Matching Directions | Resume : Job (Find the best matching jobs for a resume) | | |
|---------------------------|--|--------------------------|--|
| | Job : Resume (Find the best matching resumes for a job) Resume : Resume (Find resumes similar to this one) Job : Job (Find jobs similar to this one) Criteria : Resume (Find best resumes for the specified criteria) Criteria : Job (Find best jobs for the specified criteria) | | |
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| Semantic Searches | Can be built using an object, or queries can be hand-rolled (actual query strings). | | |
| Data Replication | Replicates your most recent data for performance and high availability. | | |
| Speed | Sub second matching/searching transaction times. | | |
| Scoring | Our Al Matching Engine provides absolute scoring, where the best match is reported at its true score from 0-100. We also report sub-scores by different categories of data. | | |
| Search Filtering | Supports user specified data fields for searching/filtering. | | |
| Highlighting Hits | Supports highlighting of hits in a document. | | |
| Semantic Indexing of Data | Data Indexed: | | |
| | Document ID | Current management level | |
| | Document language | Is an author | |
| | User specified data fields | Is a public speaker | |
| | Country | Has/was in the military | |
| | Region | Has been self employed | |
| | Municipality | Has patents | |
| | Postal code | Security credentials | |
| | Location | Education | |
| | Skills | School name | |
| | Taxonomies | Degree name | |
| | Certifications | Degree major | |
| | Licenses | Degree type | |
| | Languages | Minimum degree level | |
| | Position title | Minimum GPA | |
| | Assistant to | Graduation status | |
| | Employer | First name | |
| | Years of work experience | Last name | |
| | Years of management experience | Revision date | |
| | Executive type | | |
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