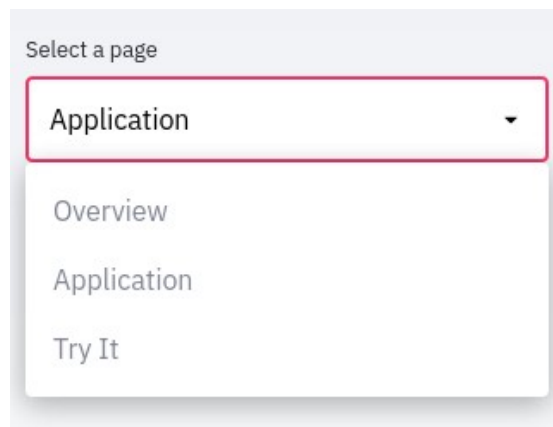


Expert.AI NLP Documentation

- This Proof-Of-Concept (POC) is developed for the submission of **Natural Language & Text Analytics API** Hackathon.
- Give it a try at : <https://eai-nlp.herokuapp.com/>
- This Web application mainly consists of three pages : Overview, Application and Try it.



- **Overview** page describes the basic details and recorded video of the application.
- **Application** page demonstrates various API integrations provided by expert.ai team. It has preselected corpus and all analysis are generated using that corpus.
- **Use case 1** : A user wants to make several confidential documents public but want to hide some sensitive information from that document, that can be achieved with **Entity recognition and masking**. In which user can select which entities needs to hide e.g. Person names mentioned, Places mentioned or Locations mentioned etc. And at last user can save that document as a pdf file and pass it further.
- **Use case 2** : User wants to highlight important paragraphs or lines from the document, so there **Important Sentence** API is useful to highlight important lines.
- **Use case 3** : A student wants to mark Important phrases from a book chapter so S/he can revise important terms before examination, this can be done by **Identifying Important Phrases & Lemmas**.
- **Use case 4** : From complex document user wants to understand which entities are associated with who or what. This can be possible with **Relation Identification** API.
- **Use case 5** : Identifying Category or Tag of a document which helps in document indexing and clasification, which is done using **Document Tagging / Classification**.
- **Use case 6** : Visualizing Positive and Negative terms from a Document can be done with **Sentiment analysis**, in which positive words highlighted with green and Negative with Red.

Entity Recognition & Masking

- Detected entities

Entity Recognition & Masking

Select entity to mask

Choose an option

This Confidentiality Agreement (the "Agreement") is made effective as of

20/01/2020 **DAT**, between Mr. Jack Lee **NPH**, of New York **GEO**, and Ms.

Kate Adams **NPH**, of Detroit **GEO**. In this Agreement, the party who owns the

Confidential Information will be referred to as 'Owner', and the party to whom the

Confidential Information will be disclosed will be referred to as 'Recipient.'

Jack Lee **NPH** is part of Apple, the 'owner'. Kate Adams **NPH** is part of

Facebook **COM**, the 'Recipient'. This acquisition will cost \$2.5 billion **MON** to

owner. The FTC **ORG** has alleged that Facebook **COM** "is illegally maintaining its

personal social networking monopoly through a years-long course of anticompetitive

conduct". The lawsuit followed a "lengthy investigation" by a "coalition of attorneys general"

of 46 states, the District of Columbia **GEO**, and Guam **GEO**.

- Masked Date, Money and Person names from the Document

Entity Recognition & Masking

Select entity to mask

DAT

X

MON

X

NPH

X

X

▼

This Confidentiality Agreement (the "Agreement") is made effective as of

[Masked] , between Mr. [Masked] , of New York **GEO** , and Ms.

[Masked] , of Detroit **GEO** . In this Agreement, the party who owns the

Confidential Information will be referred to as 'Owner', and the party to whom the

Confidential Information will be disclosed will be referred to as 'Recipient.'

[Masked] is part of Apple, the 'owner'. [Masked] is part of

Facebook **COM** , the 'Recipient'. This acquisition will cost [Masked] to

owner. The FTC **ORG** has alleged that Facebook **COM** "is illegally maintaining its

personal social networking monopoly through a years-long course of anticompetitive

conduct". The lawsuit followed a "lengthy investigation" by a "coalition of attorneys general"

of 46 states, the District of Columbia **GEO** , and Guam **GEO** .

Important Sentence Highlighting

Important Sentence

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Important Phrases

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Important Lemmas

Relation Analysis

Document Tagging / Classification

Social networking

Anti-trust crime

Regulatory of industry

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Sentiment Analysis

Overall Score 6.5

Positive Score 8.19

Negative Score -1.7

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