

# DeepDecision® LSM Model Creation APIs

DeepDecision® LSM Model Creation and LLM query APIs

You will be able to:

- Upload CSV Delimited data file for processing.
- Automatically generate a LSM.
- Retrieve AI generated Features.
- Download LSM Knowledge Graph.

More information: <https://deeplabs.dev/>

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## Access

1. OAuth AuthorizationUrl:TokenUrl:token

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## Authorization

[Up](#)

POST /token

Login For Access Token (`loginForAccessTokenTokenPost`)

#### Consumes

This API call consumes the following media types via the Content-Type request header:

- `application/x-www-form-urlencoded`

#### Form parameters

`grant_type` (required)

*Form Parameter* –

`username` (required)

*Form Parameter* –

`password` (required)

*Form Parameter* –

`scope` (required)

*Form Parameter* –

`client_id` (required)

*Form Parameter* –

**client\_secret (required)**  
*Form Parameter* –

### Return type

[Token](#)

### Example data

Content-Type: application/json

```
{
  "access_token" : "access_token",
  "token_type" : "token_type"
}
```

### Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

### Responses

200

Successful Response [Token](#)

422

Validation Error [HTTPValidationError](#)

GET /users/me/items/

[Up](#)

Read Own Items ([readOwnItemsUsersMeItemsGet](#))

### Example data

Content-Type: application/json

```
...
```

### Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

### Responses

200

Successful Response

GET /users/me/

[Up](#)

Read Users Me ([readUsersMeUsersMeGet](#))

### Return type

[User](#)

### Example data

Content-Type: application/json

```
{
  "full_name" : "full_name",
  "orgname" : "orgname",
  "disabled" : true,
  "orgkey" : "orgkey",
  "email" : "email",
  "username" : "username"
}
```

### Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

### Responses

200

Successful Response [User](#)

## DataUpload

[Up](#)

POST /deep\_decision/upload\_data

Upload (uploadDeepDecisionUploadDataPost)

Uploads local CSV file to cloud server to create a LSM.

### Consumes

This API call consumes the following media types via the Content-Type request header:

- multipart/form-data

### Form parameters

**file (required)**

*Form Parameter* – format: binary

### Example data

Content-Type: application/json

```
""
```

### Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

### Responses

200

Successful Response

422

Validation Error [HTTPValidationError](#)

## DownloadStatements

## GET /deep\_decision/download/statements/{TaskId}

Download Statements (`downloadStatementsDeepDecisionDownloadStatementsTaskIdGet`)

Returns statements generated from a LSM Knowledge Graph.

### Path parameters

**TaskId (required)**  
*Path Parameter* –

### Example data

Content-Type: application/json

```
""
```

### Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

### Responses

**200**

Successful Response

**422**

Validation Error [HTTPValidationError](#)

## DownloadFeatures

## GET /deep\_decision/download/features/{TaskId}

Download Features (`downloadFeaturesDeepDecisionDownloadFeaturesTaskIdGet`)

Streams feature file from a completed DeepDecision LSM model inference.

### Path parameters

**TaskId (required)**  
*Path Parameter* –

### Return type

[AnalysisStatusReturn](#)

### Example data

Content-Type: application/json

```
{
  "TaskId" : "d5f5e96192497bd25240efd8f4c308",
  "Status" : "Submitted",
  "Details" : "",
  "TimeStamp" : "1/1/2024, 01:01:01"
}
```

### Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

### Responses

200

Successful Response [AnalysisStatusReturn](#)

422

Validation Error [HTTPValidationError](#)

## DownloadInput

GET /deep\_decision/download/input/{TaskId}

[Up](#)

Download Input (downloadInputDeepDecisionDownloadInputTaskIdGet)

Streams input file used for a given LSM inference task.

### Path parameters

TaskId (required)

Path Parameter –

### Return type

[AnalysisStatusReturn](#)

### Example data

Content-Type: application/json

```
{
  "TaskId" : "d5f5e96192497bd25240efd8f4c308",
  "Status" : "Submitted",
  "Details" : "",
  "TimeStamp" : "1/1/2024, 01:01:01"
}
```

### Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

### Responses

200

Successful Response [AnalysisStatusReturn](#)

422

Validation Error [HTTPValidationError](#)

## DownloadInterpretationGraph

GET /deep\_decision/download/interpretation\_graph/{TaskId}

[Up](#)

Download Interpretation Graph

(downloadInterpretationGraphDeepDecisionDownloadInterpretationGraphTaskIdGet)

Returns a Llama powered LLM Interpretation graph from a LSM Knowledge Graph.

### Path parameters

TaskId (required)

### Path Parameter –

#### Return type

[AnalysisStatusReturn](#)

#### Example data

Content-Type: application/json

```
{
  "TaskId" : "d5f5e96192497bd25240efd8f4c308",
  "Status" : "Submitted",
  "Details" : "",
  "TimeStamp" : "1/1/2024, 01:01:01"
}
```

#### Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

#### Responses

200

Successful Response [AnalysisStatusReturn](#)

422

Validation Error [HTTPValidationError](#)

## DownloadKnowledgeGraph

GET /deep\_decision/download/knowledge\_graph/{TaskId} [Up](#)

Download Knowledge Graph (downloadKnowledgeGraphDeepDecisionDownloadKnowledgeGraphTaskIdGet)

Returns LSM Knowledge Graph.

#### Path parameters

TaskId (required)  
Path Parameter –

#### Example data

Content-Type: application/json

```
""
```

#### Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

#### Responses

200

Successful Response

422

Validation Error [HTTPValidationError](#)

# DownloadPerceptionGraph

GET /deep\_decision/download/perception\_graph/{TaskId} [Up](#)

Download Perception Graph (downloadPerceptionGraphDeepDecisionDownloadPerceptionGraphTaskIdGet)

Returns a Perception Graph based on Deep Lab's world state and user inputs.

## Path parameters

**TaskId (required)**  
*Path Parameter* –

## Example data

Content-Type: application/json

```
""
```

## Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

## Responses

**200**

Successful Response

**422**

Validation Error [HTTPValidationError](#)

# Fit

POST /deep\_decision/fit [Up](#)

Submits a job to create a DeepDecision Model. (fitPostDeepDecisionFitPost)

Initiates a DeepDecision LSM and returns:

- TaskId: Unique ID for job

## Query parameters

**FileName (required)**  
*Query Parameter* –

**Focus (required)**  
*Query Parameter* –

**FocusOperator (required)**  
*Query Parameter* –

**FocusValue (required)**  
*Query Parameter* –

**WorldState (optional)**  
*Query Parameter* – default: false

**WorldStateColumn (optional)**  
*Query Parameter* – default: NA

**WorldStateDefaultCntry (optional)**



*Query Parameter* – default: NA

### Return type

[AnalysisReturn](#)

### Example data

Content-Type: application/json

```
{
  "TaskId" : "d5f5e96192497bd25240efd8f4c308",
  "Status" : "Submitted",
  "TimeStamp" : "1/1/2024, 01:01:01"
}
```

### Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

### Responses

200

Successful Response [AnalysisReturn](#)

422

Validation Error [HTTPValidationError](#)

## Inference

[Up](#)

### POST /deep\_decision/inference

Run new data through an existing DeepDecision Model. (`inferencePostDeepDecisionInferencePost`)

Runs new data through an existing LSM model.

- TaskId: Unique ID for job

### Query parameters

**FileName (required)**

*Query Parameter* –

**PriorModelTaskId (optional)**

*Query Parameter* – default: NA

### Return type

[AnalysisReturn](#)

### Example data

Content-Type: application/json

```
{
  "TaskId" : "d5f5e96192497bd25240efd8f4c308",
  "Status" : "Submitted",
  "TimeStamp" : "1/1/2024, 01:01:01"
}
```

### Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

## Responses

200

Successful Response [AnalysisReturn](#)

422

Validation Error [HTTPValidationError](#)

# Interpretation

[Up](#)

## POST /deep\_decision/interpretation

Leverage DeepLab's LLM to generate human readable reports based on existing model.  
(`interpretationPostDeepDecisionInterpretationPost`)

For a existing LSM Knowledge Graph, a LLM job will be started and then returns:

- TaskId: Unique ID for job

## Query parameters

**LSMModelTaskId (optional)**

*Query Parameter* – default: NA

**ForceNewQuery (optional)**

*Query Parameter* – default: false

**ForceRebuild (optional)**

*Query Parameter* – default: false

**StatementCategory (optional)**

*Query Parameter* – default: org

**StatementId (optional)**

*Query Parameter* – default: 0

## Return type

[AnalysisReturn](#)

## Example data

Content-Type: application/json

```
{
  "TaskId" : "d5f5e96192497bd25240efd8f4c308",
  "Status" : "Submitted",
  "TimeStamp" : "1/1/2024, 01:01:01"
}
```

## Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

## Responses

200

Successful Response [AnalysisReturn](#)

422

Validation Error [HTTPValidationError](#)

# MetadataUpload

[Up](#)

POST /deep\_decision/upload\_metadata

Upload (uploadDeepDecisionUploadMetadataPost)

Uploads metadata to append to the LSM perception graph.

## Consumes

This API call consumes the following media types via the Content-Type request header:

- multipart/form-data

## Form parameters

file (required)

Form Parameter – format: binary

## Example data

Content-Type: application/json

```
""
```

## Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

## Responses

200

Successful Response

422

Validation Error [HTTPValidationError](#)

# ProjectsReturn

[Up](#)

GET /available\_projects

Getprojects Get (getprojectsGetAvailableProjectsGet)

Returns all LSM project available for the user logged in.

## Return type

[ProjectsReturn](#)

## Example data

Content-Type: application/json

```
{
  "my_project" : {
    "UserName" : "MyFile.csv",
    "Projects" : {
      "task_id" : "",
      "task_name" : "my_project",
      "username" : "",
      "org" : "",

```

```
    "state" : "",
    "created" : "",
    "output" : "",
    "label" : "my_project",
    "config" : "{}"
  },
  "TimeStamp" : "1/1/2024, 01:01:01"
}
```

### Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

### Responses

200

Successful Response [ProjectsReturn](#)

## Status

[Up](#)

GET /deep\_decision/fit/{TaskId}

Fit Get (fitGetDeepDecisionFitTaskIdGet)

Returns status of submitted DeepDecision LSM fit task.

### Path parameters

**TaskId (required)**  
*Path Parameter –*

### Return type

[AnalysisStatusReturn](#)

### Example data

Content-Type: application/json

```
{
  "TaskId" : "d5f5e96192497bd25240efd8f4c308",
  "Status" : "Submitted",
  "Details" : "",
  "TimeStamp" : "1/1/2024, 01:01:01"
}
```

### Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

### Responses

200

Successful Response [AnalysisStatusReturn](#)

422

Validation Error [HTTPValidationError](#)

## GET /deep\_decision/inference/{TaskId}

### Inference Get (inferenceGetDeepDecisionInferenceTaskIdGet)

Returns status of submitted DeepDecision LSM inference task.

#### Path parameters

**TaskId (required)**  
*Path Parameter* –

#### Return type

[AnalysisStatusReturn](#)

#### Example data

Content-Type: application/json

```
{
  "TaskId" : "d5f5e96192497bd25240efd8f4c308",
  "Status" : "Submitted",
  "Details" : "",
  "TimeStamp" : "1/1/2024, 01:01:01"
}
```

#### Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

#### Responses

200

Successful Response [AnalysisStatusReturn](#)

422

Validation Error [HTTPValidationError](#)

## GET /deep\_decision/interpretation/{TaskId}

### Interpretation Get (interpretationGetDeepDecisionInterpretationTaskIdGet)

Returns status and results if completed of submitted LLM Knowledge Retrieval Task.

#### Path parameters

**TaskId (required)**  
*Path Parameter* –

#### Return type

[AnalysisStatusReturn](#)

#### Example data

Content-Type: application/json

```
{
  "TaskId" : "d5f5e96192497bd25240efd8f4c308",
  "Status" : "Submitted",
  "Details" : ""
}
```

```

"TimeStamp" : "1/1/2024, 01:01:01"
}

```

### Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

### Responses

200

Successful Response [AnalysisStatusReturn](#)

422

Validation Error [HTTPValidationError](#)

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### AnalysisReturn - AnalysisReturn

[Up](#)

TaskId

[String](#)

Status

[String](#)

TimeStamp

[String](#)

### AnalysisStatusReturn - AnalysisStatusReturn

[Up](#)

TaskId

[String](#)

Status

[String](#)

Details

[String](#)

TimeStamp

[String](#)

### Body\_login\_for\_access\_token\_token\_post - Body\_login\_for\_access\_token\_token\_post

[Up](#)

grant\_type (optional)

[String](#)

username

[String](#)

password

[String](#)

scope (optional)

[String](#)

client\_id (optional)

[String](#)

client\_secret (optional)

[String](#)

**Body\_upload\_deep\_decision\_upload\_data\_post -**

Body\_upload\_deep\_decision\_upload\_data\_post

[Up](#)

file

[byte\[\]](#) format: binary

**Body\_upload\_deep\_decision\_upload\_metadata\_post -**

Body\_upload\_deep\_decision\_upload\_metadata\_post

[Up](#)

file

[byte\[\]](#) format: binary

**HTTPValidationError - HTTPValidationError**

[Up](#)

detail (optional)

[array\[ValidationError\]](#)

**OppNames - OppNames**

[Up](#)

An enumeration.

**ProjectsReturn - ProjectsReturn**

[Up](#)

UserName

[String](#)

Projects

[Object](#)

TimeStamp

[String](#)

**Token - Token**

[Up](#)

access\_token

[String](#)

token\_type

[String](#)

## User - User

[Up](#)

username

[String](#)

email (optional)

[String](#)

full\_name (optional)

[String](#)

orgname (optional)

[String](#)

orgkey (optional)

[String](#)

disabled (optional)

[Boolean](#)

## ValidationError - ValidationError

[Up](#)

loc

[array\[null\]](#)

items anyOf:

msg

[String](#)

type

[String](#)