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# **Ytopt Documentation**

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**ArgonneMCS**

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<b>1</b>	<b>Machine-learning-based search methods for autotuning</b>	<b>1</b>
1.1	Installation . . . . .	1
1.2	Running locally . . . . .	2
1.3	Search . . . . .	2
1.4	Tests . . . . .	2
1.5	Indices and tables . . . . .	3
1.6	Doc todo list . . . . .	3
	<b>Python Module Index</b>	<b>5</b>



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## Machine-learning-based search methods for autotuning

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### 1.1 Installation

#### 1.1.1 Local

ytopt can be installed on your local machine using conda.

```
:: conda create -n ytopt -c anaconda python=3.6 source activate ytopt git clone https://github.com/ytopt-team/ytopt.git  
cd ytopt/ pip install -e .
```

#### 1.1.2 Contribute to documentation

##### Installation

```
:: source activate ENV_NAME pip install -U Sphinx pip install sphinx_bootstrap_theme
```

### Build

To build the documentation you just need to be in the `ytopt/docs` directory and run `make html` assuming you have MakeFile installed on your computer. Then you can see the build documentation inside the `docs/_build` folder just by opening the `index.html` file with your web browser.

### Useful informations

The documentation is made with Sphinx and the following extensions are used:

Extensions	
Name	Description
autodoc	automatically insert docstrings from modules
napoleon	inline code documentation
doctest	automatically test code snippets in doctest blocks
intersphinx	link between Sphinx documentation of different projects
todo	write “todo” entries that can be shown or hidden on build
coverage	checks for documentation coverage
mathjax	include math, rendered in the browser by MathJax
ifconfig	conditional inclusion of content based on config values
viewcode	include links to the source code of documented Python objects
githubpages	create <code>.nojekyll</code> file to publish the document on GitHub pages

Sphinx uses reStructuredText files, click on this [link](#) if you want to have an overview of the corresponding syntax and mechanism.

Our documentation try to take part of the inline documentation in the code to auto-generate documentation from it. For that reason we highly recommend you to follow specific rules when writing inline documentation : [https://sphinxcontrib-napoleon.readthedocs.io/en/latest/example\\_google.html](https://sphinxcontrib-napoleon.readthedocs.io/en/latest/example_google.html).

## 1.2 Running locally

## 1.3 Search

## 1.4 Tests

For automatic tests in deephyper we choosed to use the pytest framework: [pytest official website](#).

### 1.4.1 Install Pytest

```
pip install -U pytest
```

### 1.4.2 Run Tests

```
cd deephyper/tests/  
pytest
```

## 1.5 Indices and tables

- [genindex](#)
- [modindex](#)
- [search](#)

## 1.6 Doc todo list





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ytopt, 1



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ytopt (*module*), 1