# Contributing Guide

Contributions are welcome, and greatly appreciated!

Follow the tag of [good first issue](https://github.com/keras-team/autokeras/issues?q=is%3Aissue+is%3Aopen+label%3A%22good+first+issue%22)

for the issues for beginner.

If you don't know where to start, please join our community on [Slack](https://autokeras.com/#community) and ask us.

We will help you get started!

## Pull Request Guide

1. Is this the first pull request that you're making with GitHub? If so, read the guide [Making a pull request to an open-source project](https://github.com/gabrieldemarmiesse/getting\_started\_open\_source).

2. Include "resolves #issue\_number" in the description of the pull request if applicable. Briefly describe your contribution.

3. Submit the pull request from the first day of your development and create it as a [draft pull request](https://github.blog/2019-02-14-introducing-draft-pull-requests/). Click `ready for review` when finished and passed the all the checks.

4. For the case of bug fixes, add new test cases which would fail before your bug fix.

## Setup Environment

### virtualenv

Install [Virtualenvwrapper](https://virtualenvwrapper.readthedocs.io/en/latest/).

Create a new virtualenv named `ak` based on python3.

```

mkvirtualenv -p python3 ak

```

Please use this virtualenv for development.

### Installation

Clone the repo. Go to the repo directory.

Run the following commands.

```

workon ak

pip install -e ".[tests]"

pip uninstall autokeras

add2virtualenv .

pip install mkdocs

pip install mkdocs-material

pip install autopep8

pip install git+https://github.com/gabrieldemarmiesse/typed\_api.git@0.1.1

```

## Run Tests

Activate the virtualenv.

Go to the repo directory

Run the following lines to run the tests.

Run all the tests.

```

pytest tests

```

Run all the unit tests.

```

pytest tests/autokeras

```

Run all the integration tests.

```

pytest tests/integration\_tests

```

## Code Style

### Option 1: Automatic

It automatically formats the code every time you commit.

To setup:

1. Install Docker.

2. Run `cd .git/hooks && ln -s -f ../../shell/pre-commit.sh pre-commit` from the repo directory.

### Option 2: Manually

You can run the following manually every time you want to format your code.

1. Run `shell/format.sh` to format your code.

2. Run `shell/lint.sh` to check.

## Docstrings

Docstrings should follow our style.

Just check the style of other docstrings in AutoKeras.