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# **finetune Documentation**

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Finetune is a python library designed to make finetuning pre-trained language models for custom natural language processing tasks a breeze.

It ships with pre-trained model weights from “[Improving Language Understanding by Generative Pre-Training](#)” and builds off the [OpenAI/finetune-language-model](#) repository.

Source code for finetune is available [on github](#).



# CHAPTER 1

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## Installation

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Finetune can be installed directly from PyPI by using *pip*

```
pip install finetune
```

or installed directly from source:

```
git clone https://github.com/IndicoDataSolutions/finetune
cd finetune
python3 setup.py develop
```

You can optionally run the provided test suite to ensure installation completed successfully.

```
nosetests
```





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### Finetune Quickstart Guide

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Finetuning the base language model is as easy as calling `LanguageModelClassifier.fit()`:

```
model = LanguageModelClassifier()    # load base model
model.fit(trainX, trainY)            # finetune base model on custom data
predictions = model.predict(testX)   # predict on unseen examples
model.save(path)                     # serialize the model to disk
```

Easily reload saved models from disk by using `LanguageModelClassifier.load()`:

```
model = LanguageModelClassifier.load(path)
predictions = model.predict(testX)
```



## CHAPTER 3

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### Finetune API Reference

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