

# Create a New Conda Environment for AI

## AI Conda Environment Setup

To list the environments you have

```
conda info -e
```

## Initial Setup for a new AI environment

```
conda create --name AI python=3.11
conda activate AI
conda install pandas
conda install console_shortcut
conda install -c conda-forge jupyterlab
conda install scikit-learn
conda install matplotlib
pip install python-dotenv
pip install nltk
pip install transformers
pip install sentence-transformers
pip install tensorflow
pip install keras-tuner
pip install tf-keras
pip install gradio
pip install iprogress
pip install jupyter --upgrade
pip install openai
pip install langchain
pip install langchain-openai
pip install flair
pip install imageio
pip install streamlit
```

## Create the kernel for VS Code/Jupyter

```
python -m ipykernel install --user --name <other-env> --display-name
"Python (<other-env>)"
```

```
For example,  
python -m ipykernel install --user --name AI --display-name "Python (AI)"
```

**To remove a Kernel from Jupyter, simply run the following code:**

```
jupyter kernelspec uninstall "Python 3.7.1 64-bit"
```

**To list the Kernel's you have defined**

```
jupyter kernelspec list
```

**Occasionally:**

Run this from time-to-time to update Anaconda

```
conda update -n base -c defaults conda
```

Run this from time-to-time to update pip

```
python.exe -m pip install --upgrade pip
```

**To Remove a Corrupted Environment**

```
conda env remove -n ENV_NAME
```

**To Launch Jupyter Lab**

PC: From the Anaconda Prompt (AI):

```
jupyter lab
```

Mac: From the Terminal:

```
conda activate AI
jupyter lab
```