

Tutorial: Setting up Conda Environment and Running Jupyter Notebook

This tutorial guides you through downloading Anaconda, setting up a conda environment called `cs5404`, and running Jupyter Notebook using a `requirements.txt` file.

Step 1: Download and Install Anaconda

1. Go to the official [Anaconda website](#).
2. Choose your operating system (Windows, macOS, Linux).
3. Download the installer (preferably the latest **Anaconda Distribution**).
4. Run the installer and follow the on-screen instructions.
 - On Windows, check the box to “Add Anaconda to PATH” (recommended).
 - On macOS/Linux, installation will add conda to your shell.

After installation, verify conda is available:

```
conda --version
```

Step 2: Create a Conda Environment

1. Open **Anaconda Prompt** (Windows) or terminal (macOS/Linux).
2. Create a new environment named `cs5404` with Python 3.10 (it can be from 3.8-3.11):

```
conda create -n cs5404 python=3.10 -y
```

3. Activate the environment:

```
conda activate cs5404
```

Step 3: Install Packages from requirements.txt

1. Place your `requirements.txt` file in a known folder (e.g., Downloads).
2. Run the following command to install dependencies:

```
pip install -r requirements.txt
```

Step 4: Install and Launch Jupyter Notebook

1. Install Jupyter inside your environment:

```
conda install jupyter -y
```

2. Launch Jupyter Notebook:

jupyter notebook

3. This will open Jupyter Notebook in your browser. You can now create and run .ipynb notebooks.

Step 5: Verify Installation

Inside a notebook cell, run:

```
import sys
print(sys.executable)
```

It should show the Python executable path under your cs5404 environment.

Summary

- Installed Anaconda
- Created conda environment cs5404
- Installed dependencies from requirements.txt
- Installed and launched Jupyter Notebook