

인공지능(딥러닝) 가이드

tensorflow, pandas, numpy, matplotlib, ... 환경구성

유재명

Tensorflow 지원

참조: <https://tensorflow.org/install?hl=ko>

The screenshot shows the TensorFlow website's installation page in Korean. The browser address bar displays 'tensorflow.org/install?hl=ko'. The page features a navigation bar with the TensorFlow logo and links for '설치' (Installation), '학습' (Learning), 'API', '리소스' (Resources), '커뮤니티' (Community), and 'TensorFlow를 사용해야 하는 이유' (Why use TensorFlow). The '설치' section is active, showing a sidebar with '필터' (Filter), 'TensorFlow 설치' (TensorFlow Installation), '패키지' (Packages) including pip and Docker, '추가 설정' (Additional Settings) including GPU support, and '문제' (Issues). The main content area is titled 'TensorFlow 2 설치' (TensorFlow 2 Installation) and states that TensorFlow is tested and supported on 64-bit systems. A red dashed box highlights 'Python 3.6~3.9' as a supported version. Other supported systems listed include macOS 10.12.6 (Sierra) and above (GPU support not available), Ubuntu 16.04 and above, and Windows 7 and above (C++ redistributable packages available).

TensorFlow

설치 학습 API 리소스 커뮤니티 TensorFlow를 사용해야 하는 이유

설치

필터

TensorFlow 설치

패키지

- pip
- Docker

추가 설정

- GPU 지원
- 문제

TensorFlow 2 설치

TensorFlow는 다음 64비트 시스템에서 테스트 및 지원됩니다.

- Python 3.6~3.9
- macOS 10.12.6(Sierra) 이상(GPU 지원 없음)
- Ubuntu 16.04 이상
- Windows 7 이상(C++ 재배포 가능 패키지)

파이썬 설치

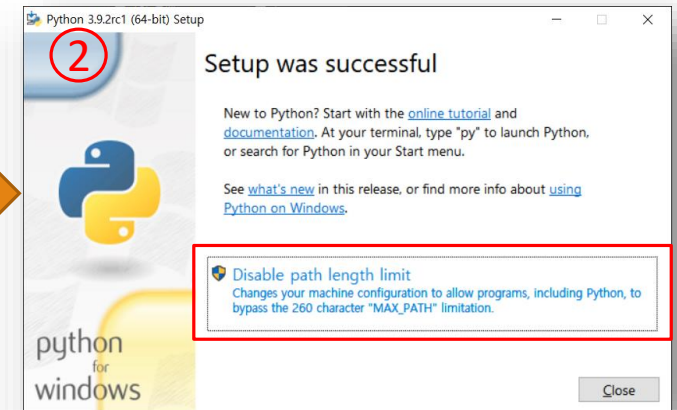
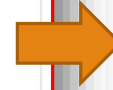
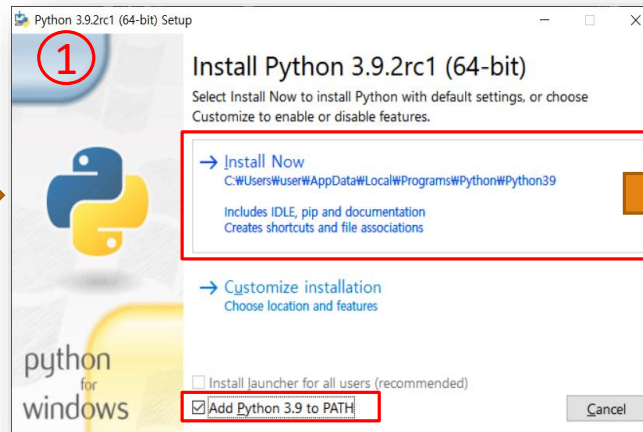
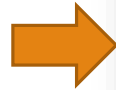
버전: python-3.9.2rc1-amd64.exe

다운로드: <https://www.python.org/downloads/windows/>

- Python 3.9.2rc1 - Feb. 16, 2021


- Download [Windows installer \(64-bit\)](#)
- Download [Windows installer \(32-bit\)](#)
- Download [Windows help file](#)
- Download [Windows embeddable package \(64-bit\)](#)
- Download [Windows embeddable package \(32-bit\)](#)

다운로드 및 설치



파이썬 설치

버전: python-3.9.2rc1-amd64.exe

- * 탐색기를 열어( + R) 작업폴더 생성하기: “인공지능”
- * 탐색기 주소창에 “cmd” 입력 후 엔터 > 명령창 열기

```
pip install tensorflow
python -m pip install --upgrade pip
pip install pandas
pip install scikit-learn
pip install scipy
pip install statsmodels
pip install jupyterlab
pip install jupyterlab-visualpython
jupyter lab
```

