

Python Programing – Class Agenda (24.01.66)

- Installing python program (python v.3.10) and setup path environment
- Create environment for project
 - install virtual environment manager ***pip install virtualenv***
 - check python list: ***py --list***
 - create virtual environment ***py -3.10 -m virtualenv {your-project-name}***
 - starting virtual environment
 - Windows PowerShell (VSCode default terminal):
name_project\Scripts\activate.psl
 - Windows Command Prompt: ***project-name\Scripts\activate***
 - Mac Terminal: ***source project-name/bin/activate***
 - To close the virtual environment: ***deactivate***
 - ***pip install notebook*** or ***pip install jupyterlab***
 - Add virtual environment to the Jupyter kernel list
 - Install ipykernel: ***pip install ipykernel***
 - Add the virtual environment with your preferred name to identify the virtual environment: ***py -m ipykernel install --name your-kernel-name***
 - Check jupyter kenelspec: ***jupyter kernelspec list***
 - Remove jupyter kernel spec environment: ***jupyter kernelspec uninstall {your -kernel-name}***
 - Install packages.
 - ***pip install pandas***
 - ***pip install matplotlib***
 - ***pip install -U scikit-learn***
 - ***pip install tensorflow***
 - ***pip install numpy***
 - ***pip install opencv-python***
 - If you want to install all package above, use this command line to get requirement.txt file: ***python -m pip install requirement.txt***
- Basic syntax (** No Package **)
 - Data Type: Numerical / Float / Double / String / List / Dictionary / Tuple / Boolean /
 - For Loop/ While Loop
 - Function
 - Class
 - Read/Write file
 - module

Machine Learning – Class Agenda (25.01.66)

- Overview of Machine learning (Slide)
- Training model step by step (Image classification) Traditional Machine Learning method
 - Import data from oracle cloud service
 - Data Exploratory
 - Data Preprocessing
 - Data Transform
 - Train model
- Training model step by step (Image classification) Deep learning method
 - Import data from oracle cloud service
 - Data Exploratory
 - Data Preprocessing
 - Data Transform
 - Train model