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| RSE4207  Artificial Intelligence and Machine Learning |
| Milestone 2 |

Date: 21 Nov 2023

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# Installations

Integrated Development Environment (IDE)

|  |  |
| --- | --- |
| Visual Studio Code on Windows & macOS | 1. Go to website: <https://code.visualstudio.com/download> 2. Download version that corresponds with Operating System (OS) 3. Open the downloaded executable and follow through the installation process |
| Visual Studio Code on Linux(Ubuntu/Debian) | 1. Open terminal 2. Run the following commands:   sudo apt update  sudo apt install software-properties-common apt-transport-https wget  wget -q <https://packages.microsoft.com/keys/microsoft.asc> -0- | sudo apt-key add  sudo add-apt-repository “deb [arch=amd64] <https://packages.microsoft.com/repos/vscode> stable main”  sudo apt update  sudo apt install code |
| Visual Studio Code on Linux(Ubuntu/Debian) | 1. Open terminal 2. Run the following commands:   sudo rpm --import <https://packages.microsoft.com/keys/microsoft.asc>  sudo sh -c ‘echo -e “[code]/nname=Visual Studio Code\nbaseurl=https://packages.microsoft.com/yumrepos/vscode\nenabled=1\ngpgcheck=1\ngpgkey=https://packages.microsoft.com/keys/microsoft.asc” > /etc/yum.repos.d/vscode.repo’  sudo dnf check-update  sudo dnf install code |

Programming language:

|  |  |
| --- | --- |
| Python on Windows & macOS | 1. Go to website: <https://www.python.org/downloads/> 2. Download version that corresponds with Operating System (OS) 3. Open the installer and follow through the installation process |
| Python on Linux(Ubuntu/Debian) | 1. Open terminal 2. Run the following commands:   sudo apt-get update  sudo apt-get install python3 |
| Python on Linux(CentOS/Fedora) | 1. Open terminal 2. Run the following commands:   sudo yum update  sudo yum install python3 |

Libraries:

|  |  |
| --- | --- |
| pandas | 1. Open terminal 2. Run the following command:   pip install pandas |
| numpy | 1. Open terminal 2. Run the following command:   pip install numpy |
| matplotlib | 1. Open terminal 2. Run the following command:   pip install matplotlib |
| seaborn | 1. Open terminal 2. Run the following command:   pip install seaborn |
| scikit-learn | 1. Open terminal 2. Run the following command:   pip install scikit-learn |

# Systems Requirement

|  |  |
| --- | --- |
| Operating System | Windows, macOS, Linux, Unix-like |
| Processor | Intel Core i5, AMD Ryzen 5, and above |
| Memory (RAM) | Minimum 4GB RAM |
| Storage | Minimum 600MB |

# Folder Architecture

A diagram of a data flow

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