## **ML Job Ready Course**

## Week 1 Day 1

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## Conda command

## 1. How to create an environment in conda?

conda create --name myenv python=3.x --no-default-packages
2. How to activate env?
conda activate myenv
2.1: How to install pip?
conda install pip

## 3. How to install dependencies?

pip install -r requirements.txt

#### 3.1 How to store packages?

conda list --export | cut -d= -f1,2 > requirements.txt pip list --format=freeze > requirements.txt

# 4. To see how many Conda environments are available on your system, you can use the following command:

conda env list / conda list -n myenv or alternatively: conda info --envs

#### 5. How to remove conda env?

Deactivate the current environment (if you're inside the environment you want to remove): If you're in the environment you want to remove, you first need to deactivate it: conda deactivate

#### 6. Remove the environment:

Run the following command to remove a specific Conda environment. Replace myenv with the name of the environment you want to delete:

conda env remove --name myenv

This will delete the environment and all its associated packages.

## **Python Basic**

## 1. Variables and Data Types

```
Variables are used to store data in memory. Common types are:
```

- int (e.g., 10)
- float (e.g., 3.14)
- str (e.g., 'hello')
- bool (e.g., True, False)

name = "Alice"

age = 30

height = 5.4

is\_student = True

## 2. Type Casting

Convert one data type to another using int(), float(), str(), etc.

age = "25"

age\_int = int(age)

print(age\_int + 5)

## 3. input() and print() functions

Use input() to get user input and print() to display output.

name = input("Enter your name: ")

print("Hello, " + name + "!")

#### 4. String Formatting

Combine strings and variables using f-strings.

name = "Bob"

age = 22

print(f"My name is {name} and I am {age} years old.")

#### 5. Comments

Use # for single-line comments to explain your code.

# This is a comment

name = "John" # Storing the name

#### 6. Indentation Rules

Python uses indentation to define blocks of code.

age = 18

if age >= 18:

print("You are an adult.")

#### **Practice: BMI Calculator**

Program to take user input and calculate BMI.

name = input("Enter your name: ")

height = float(input("Enter your height in meters: "))

```
weight = float(input("Enter your weight in kilograms: "))
bmi = weight / (height ** 2)
print(f"{name}, your BMI is: {bmi:.2f}")
Practice: Personal Info Display
Print your name, age, and favorite number.
name = "John Doe"
age = 25
fav number = 7
print(f"My name is {name}, I am {age} years old, and my favorite number is {fav_number}.")
Practice: Type Casting Demo
Demo program for type casting user input.
age = input("Enter your age: ")
age = int(age)
print(f"In 5 years, you will be {age + 5} years old.")
Practice: Comment and Indentation
Demo to show comments and proper indentation.
# This is a simple program
# It adds two numbers
num1 = 10
num2 = 20
# Add them
result = num1 + num2
# Print the result
print("The sum is:", result)
```