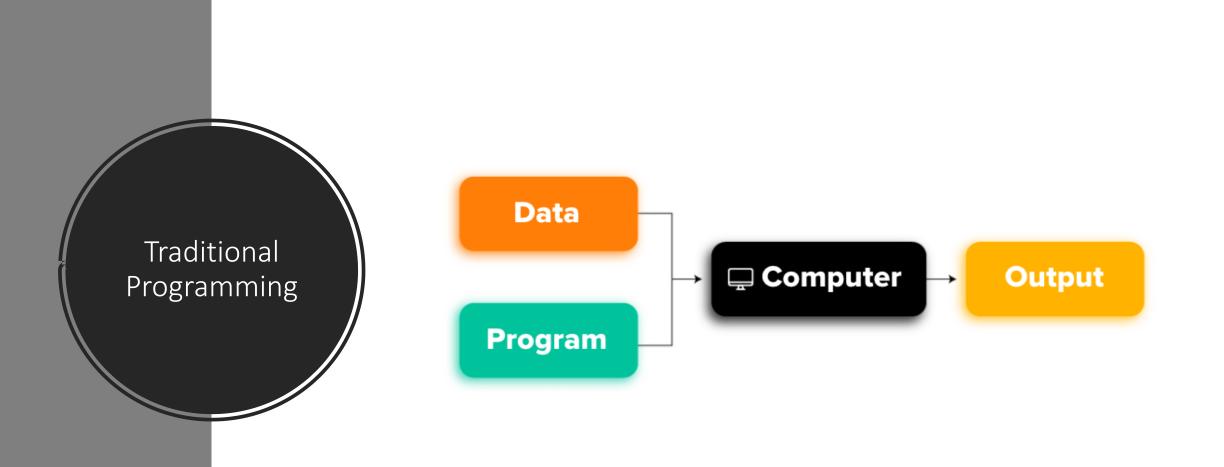
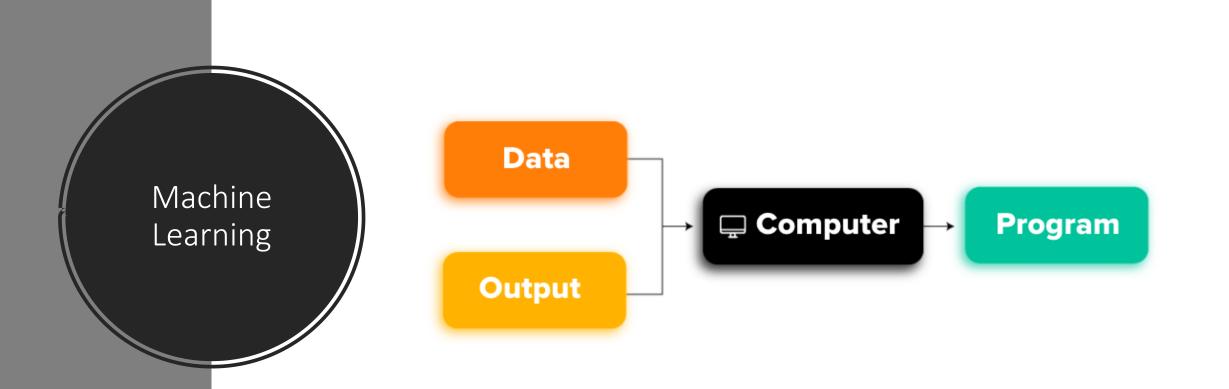
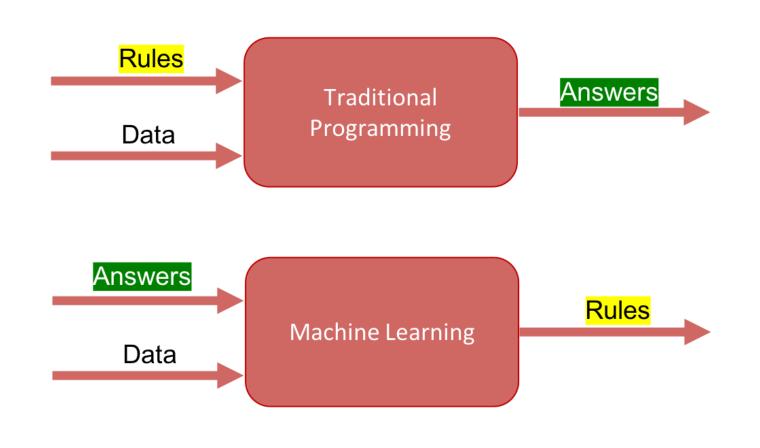
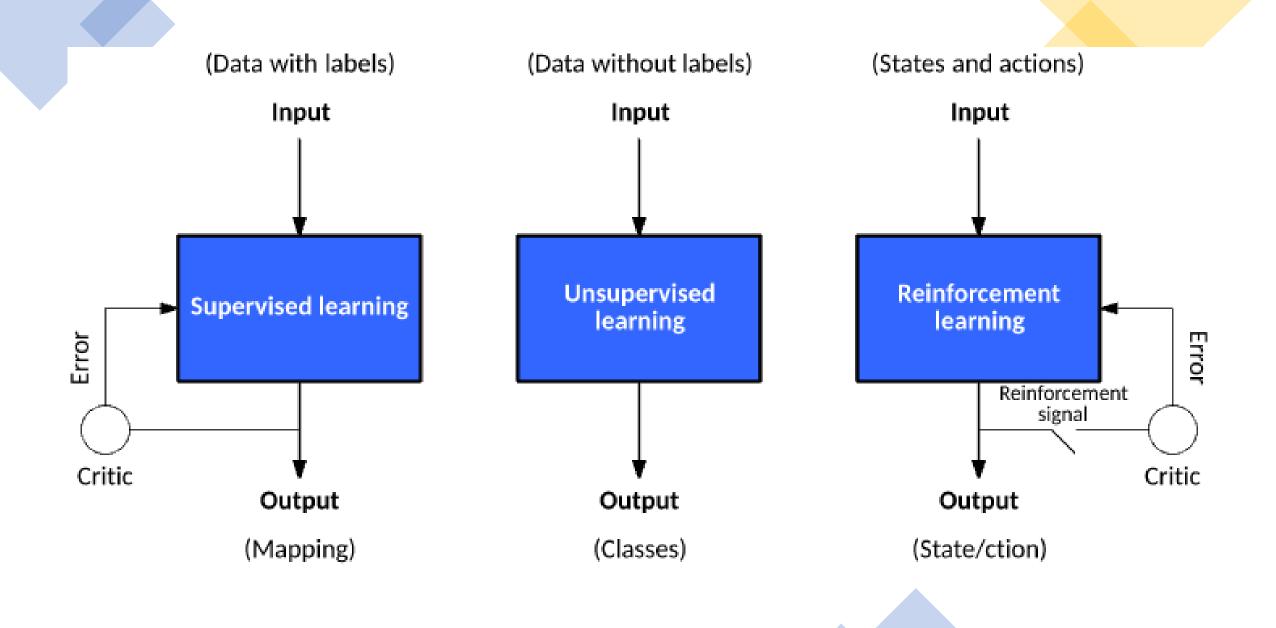
Machine
Learning (ML)
&
Large Language
Models (LLMs)

Usman Nazir









Machine Learning (Supervised Learning)

Supervised learning

Get labeled data

1 month

Get labeled on datal

Train Al model on datal

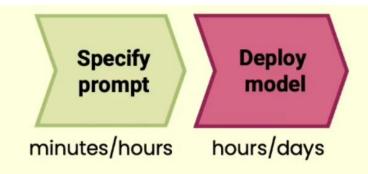
Deploy (run) model

3 months

3 months

Large Language Models (LLMs)

LLM-based development



Large Language Models

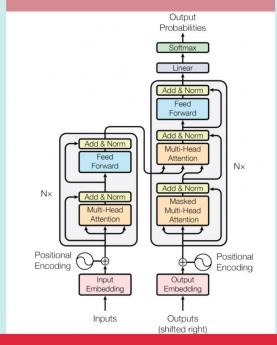
Large language models are deep neural networks that are trained on vast amounts of text data to generate natural language text. They can perform various NLP tasks such as text classification, translation, question answering, and text generation. Examples include GPT-3 by OpenAl, BERT by Google, and RoBERTa by Facebook. These models have hundreds of millions to billions of parameters, making them capable of understanding and generating human-like text.

OpenAl

Al Generative Models; APIs; free and paid Al tools

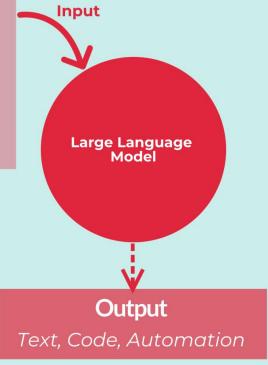
OpenAILLMs

Generative models like GPT-3 & DALL-E



Prompting

"summarize a text of X"
"generate a poem in the
style of X"
"give me a list of
keywords based on
semantic similarity for X"



Very fast prototyping

Supervised learning

Get labeled data

1 month

Train
Al model
on datal

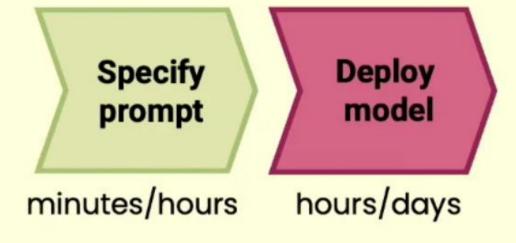
3 months

Deploy (run) model

3 months



LLM-based development





DEMO