

# 4 Days Workshop on **Artificial Intelligence**





# Who this workshop is for ?

- Students **exploring whether AI / ML is the right career path**, and want a clear big-picture understanding
- Students **already learning AI / ML**, who want to connect concepts and understand what to focus on next
- Students **planning other tech careers** who need essential AI literacy

# Scope of this workshop

01

## Classical ML Foundations

Introduction to AI, data pipeline, training and evaluating linear models

02

## From ML to LLMs

How we get from classical MI to LLMs,  
Basics of LLMs

03

## Agents & Tools

Tool calling, agentic workflows, integrating models into intelligent systems

04

## Context & RAG

Embeddings, vector databases, retrieval-augmented generation project

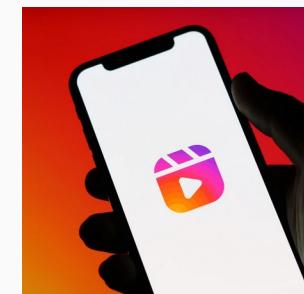


# Introduction

Getting Started with AI & ML.

# What is Artificial Intelligence ?

- AI is the ability of machines to perform tasks that typically require human intelligence.
- Examples: decision-making, language understanding, vision, robotics.
- Real-world examples: ChatGPT, self-driving cars, chess engines, recommendation systems.

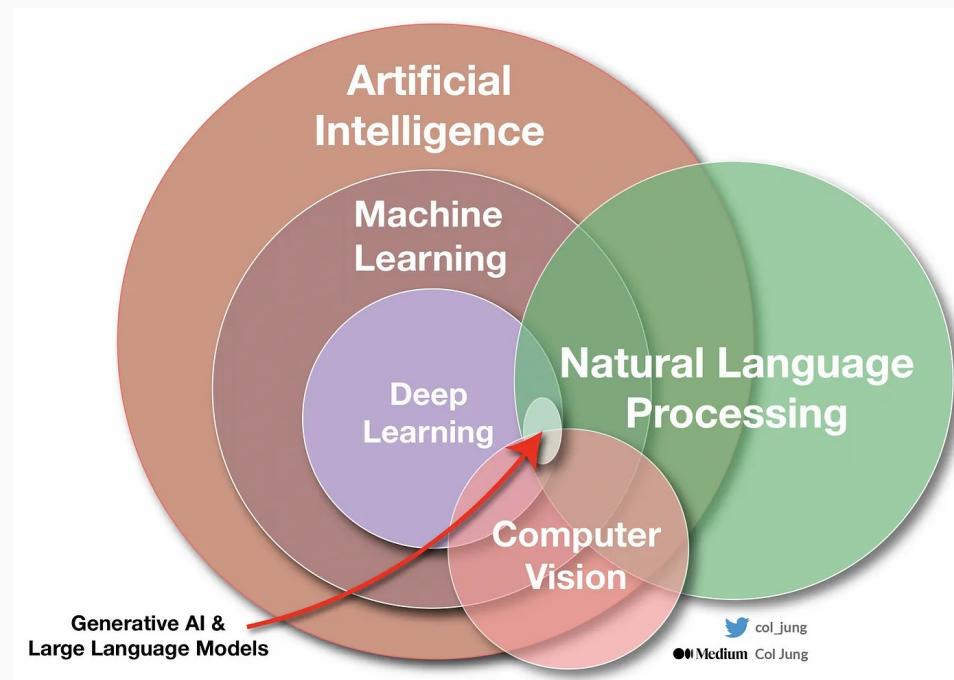




# What is Machine Learning ?

- ML is a subset of AI where systems learn from data and experience instead of being explicitly programmed.
- Example: spam detection learns from past emails.

# Connection between various ML topics



# Basic ML Pipeline

