Welcome to
Fundamentals of Generative AI

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Fundamentals of Gen AI

Introduction

Data Trainers

What are we going to do?

Learning Objectives

We will cover

- What is GenAI
- Types of Gen AI Architectures
- Transformers and Attention
- AI Project lifecycle
- Train vs not train: Foundational models and finetuning

This will be the foundation for what is to come

GenAI can:

- Generate new text from a prompt

- Is this a good or bad review?

- How much demand will there be for my service tomorrow?

- Is this the cheapest way to deliver my goods?

- Is there a better way to segment my marketing strategies?

- Create images, videos

- Analyse speech to detect characters or topics

- Text Generation (ChatGPT)

- Classification (distillBERT-ssm)

- Forecasting (Prophet)

- Graph-ML (ChatGPT)

- Clustering (T5)

- Text to image, video (DALL-E / Midjourney)

- Speech Recognition (wav-2-vec-bert)

Data Trainers

ARTIFICIAL INTELLIGENCE
Early artificial intelligence stirs excitement.

MACHINE LEARNING
Machine learning begins to flourish.

DEEP LEARNING
Deep learning breakthroughs drive AI boom.

1950's   1960's   1970's   1980's   1990's   2000's   2010's

Data Trainers

THE WEATHER CHANNEL RECEIVES 18,055,555.56 FORECAST REQUESTS

GIPHY SERVES 694,444 GIFS

NETFLIX USERS STREAM 69,444 HRS OF VIDEO

SNAPCHAT USERS SHARE 527,760 PHOTOS

LINKEDIN GAINS 120+ NEW PROFESSIONALS

AMAZON MAKES $258,751.90 IN SALES

TUMBLR USERS PUBLISH 74,220 POSTS

103,447,520 SPAM EMAILS SENT

WIKIPEDIA USERS PUBLISH 600 NEW PAGE EDITS

GOOGLE CONDUCTS 3,607,080 SEARCHES

BUZZFEED USERS VIEW 50,925.92 VIDEOS

VENMO PROCESSES $51,892 PEER-TO-PEER TRANSACTIONS

UBER RIDERS TAKE 45,787.54 TRIPS

SPOTIFY ADDS 13 NEW SONGS

AMERICANS USE 2,657,700 GB OF INTERNET DATA

YOUTUBE USERS WATCH 4,146,600 VIDEOS

TWITTER USERS SEND 456,000 TWEETS

15,220,700 TEXTS SENT

SKYPE USERS MAKE 154,200 CALLS

INSTAGRAM USERS POST 46,740 PHOTOS

2017 every MINUTE of the DAY PRESENTED BY DOMO