

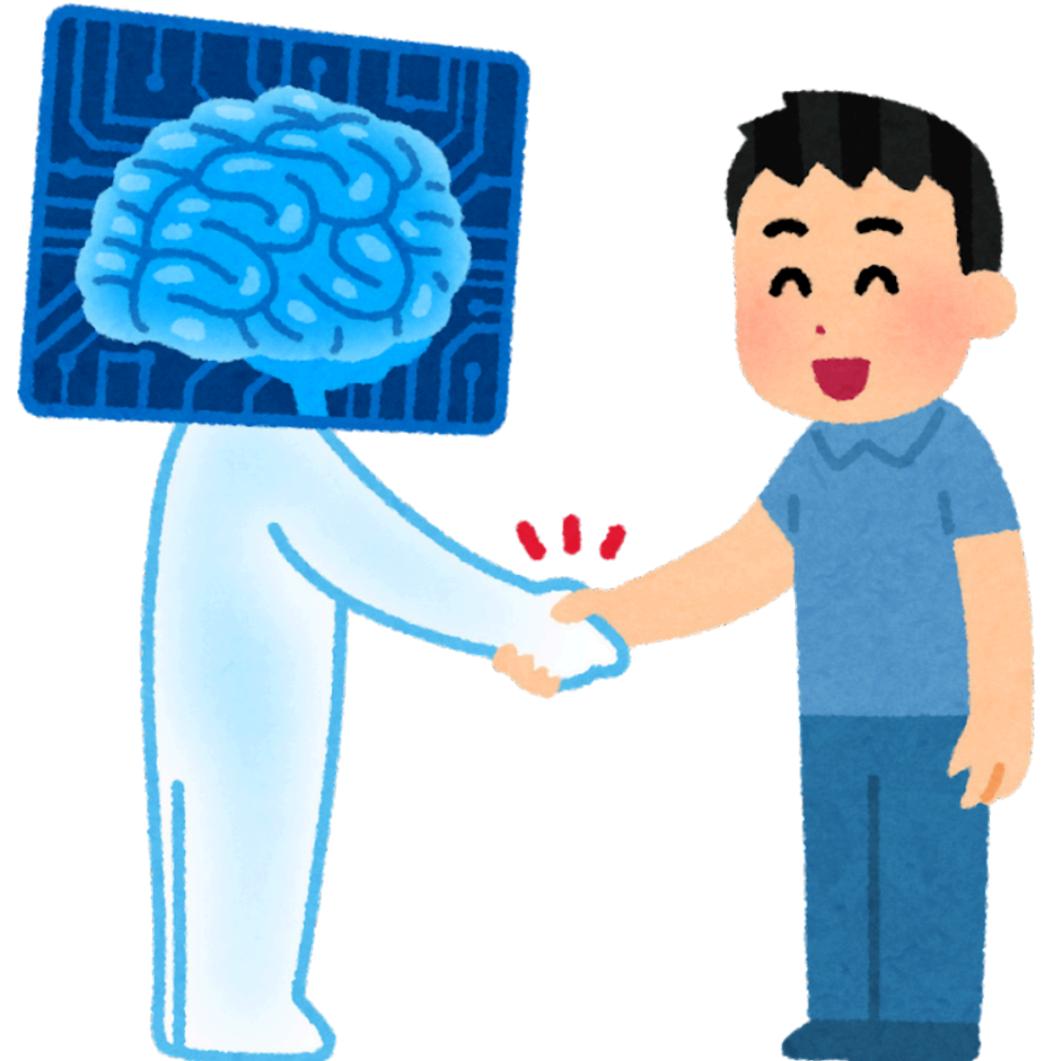


PROMPT ENGINEERING

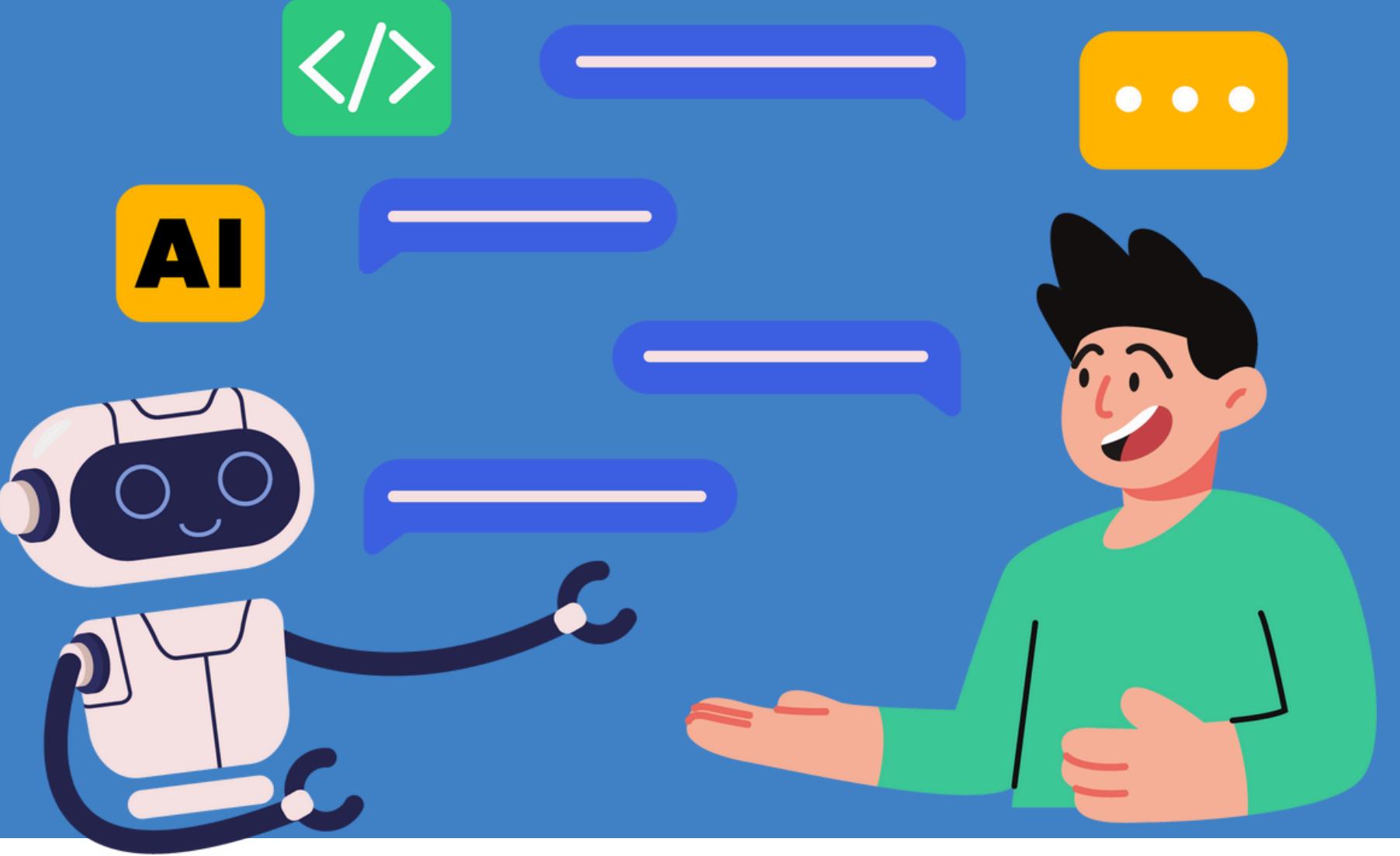
WWW.AISCIENCES.IO



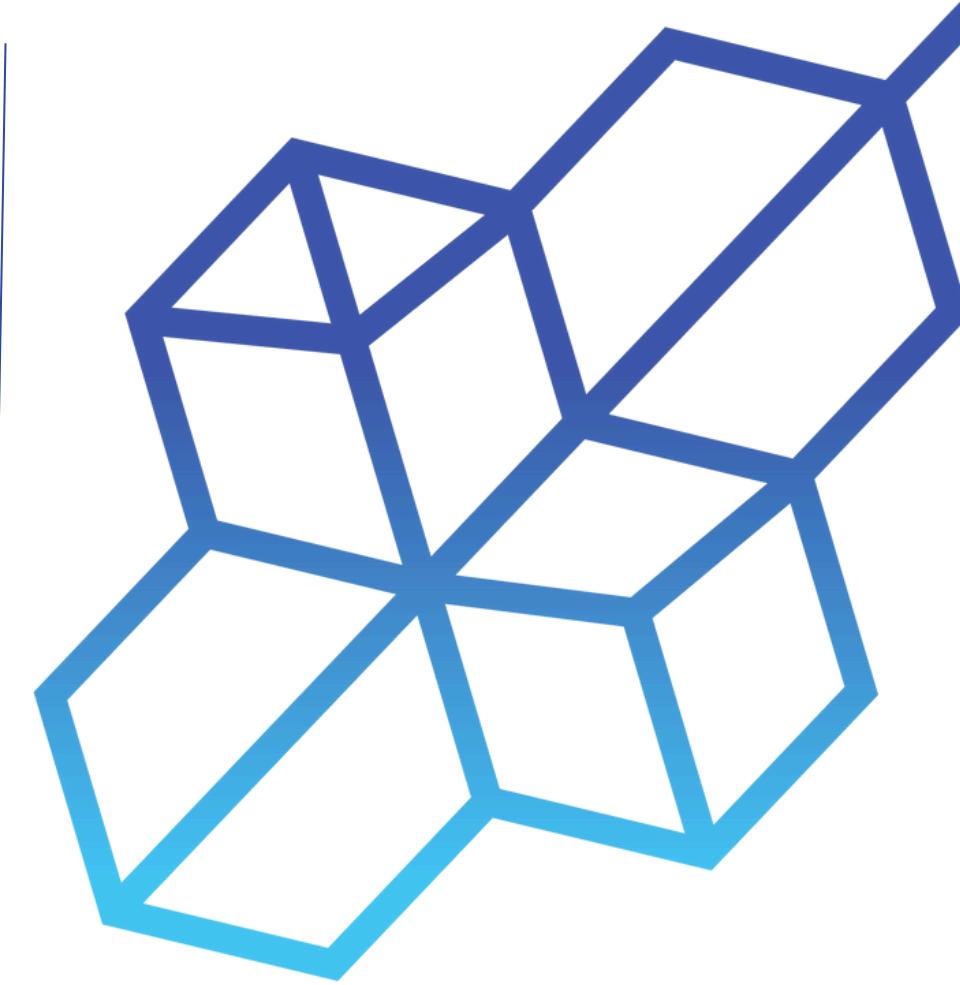
INSTRUCTOR: FIZZA FAWAD



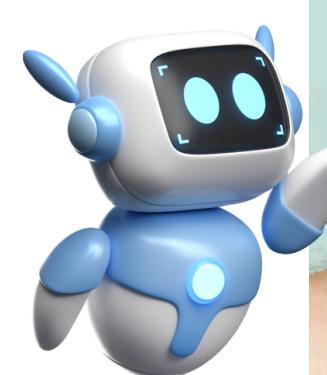
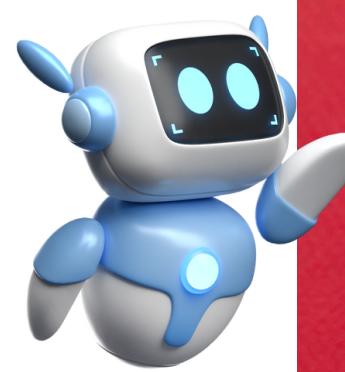
PROMPT ENGINEERING



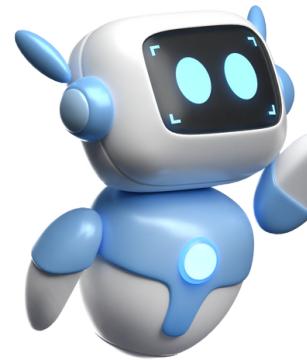
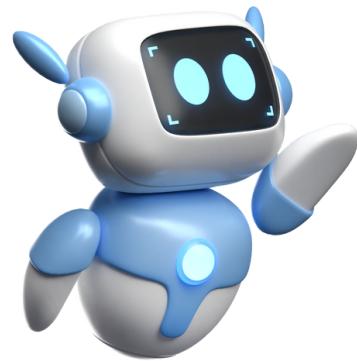
DESIGNING AND REFINING THE INPUT GIVEN
TO AN AI LANGUAGE MODEL



IMPORTANCE OF PROMPT ENGINEERING



KEY PRINCIPLES OF PROMPT ENGINEERING



KEY PRINCIPLES OF PROMPT ENGINEERING



REAL WORLD EXAMPLES

CUSTOMER SERVICE



YOU ARE A CUSTOMER SERVICE REPRESENTATIVE. A CUSTOMER HAS COMPLAINED ABOUT THEIR ORDER BEING DELAYED. APOLOGIZE FOR THE DELAY, OFFER TO TRACK THE ORDER, AND PROVIDE A DISCOUNT CODE FOR THEIR NEXT PURCHASE."

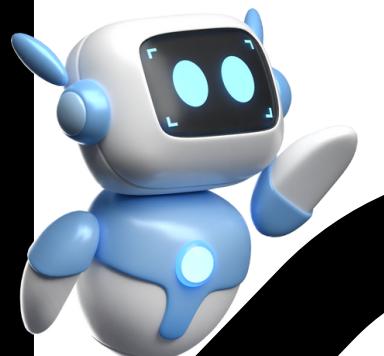


REAL WORLD EXAMPLES

EDUCATIONAL ASSISTANCE



'EXPLAIN THE WATER CYCLE IN SIMPLE TERMS SUITABLE FOR A 5TH-GRADE STUDENT. INCLUDE THE STAGES OF EVAPORATION, CONDENSATION, AND PRECIPITATION.'"



REAL WORLD EXAMPLES

CREATIVE WRITING

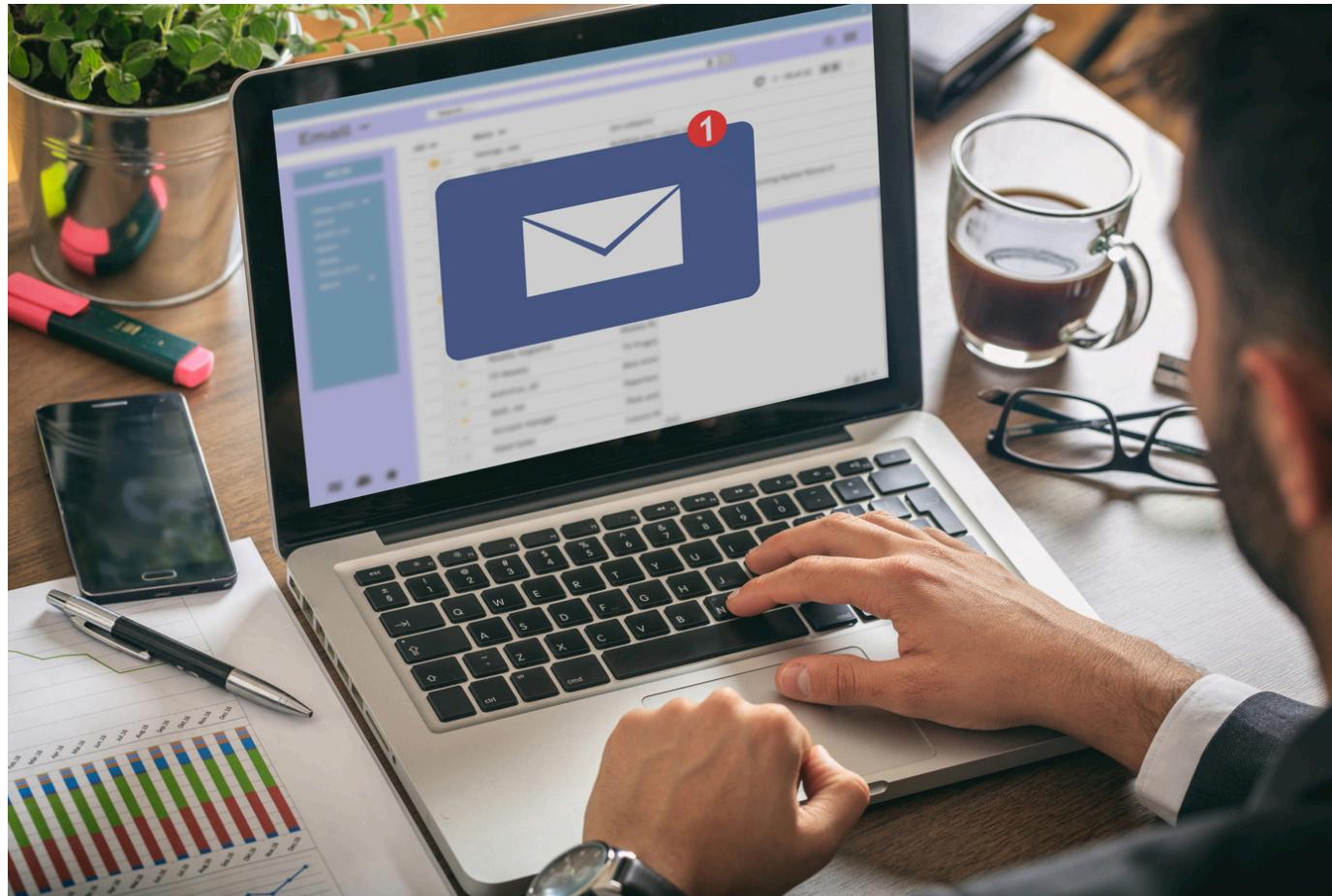


'CREATE AN OUTLINE FOR A FANTASY STORY SET IN A WORLD WHERE HUMANS CAN COMMUNICATE WITH ANIMALS. INCLUDE A PROTAGONIST, A CONFLICT, AND A RESOLUTION.'"



REAL WORLD EXAMPLES

BUSINESS



'WRITE A POLITE FOLLOW-UP EMAIL TO A POTENTIAL CLIENT WHO HASN'T RESPONDED IN TWO WEEKS. EXPRESS INTEREST IN WORKING TOGETHER AND ASK IF THEY NEED ANY MORE INFORMATION.'"

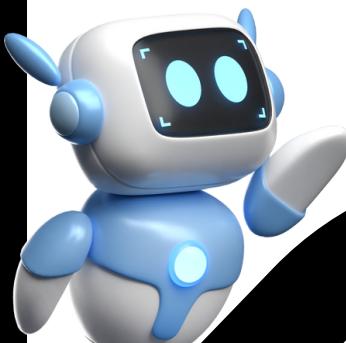


REAL WORLD EXAMPLES

HEALTHCARE



'SUMMARIZE THE KEY LIFESTYLE CHANGES A PATIENT WITH HIGH BLOOD PRESSURE SHOULD MAKE. INCLUDE DIET, EXERCISE, AND STRESS MANAGEMENT TIPS.'



REAL WORLD EXAMPLES

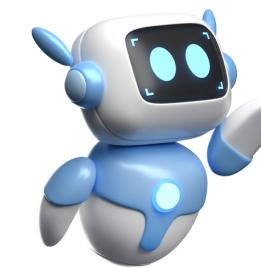
ENTERTAINMENT



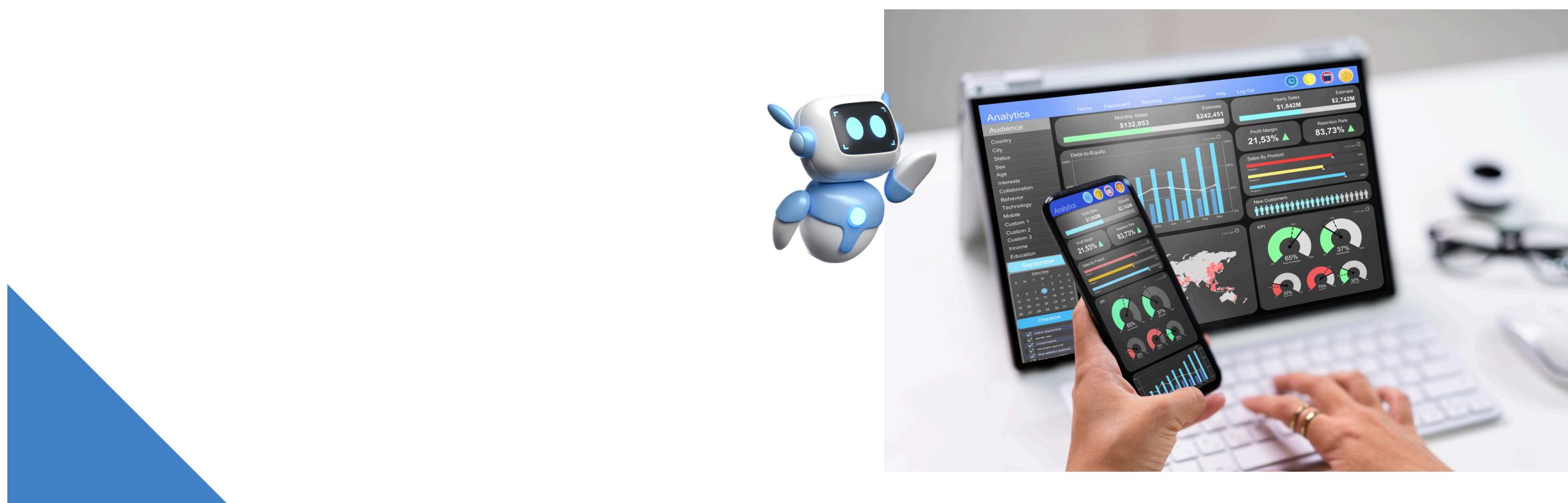
'GENERATE A CATCHY CAPTION FOR AN INSTAGRAM POST FEATURING A NEW SUMMER CLOTHING COLLECTION. HIGHLIGHT THE VIBRANT COLORS AND COMFORTABLE FABRIC.'"



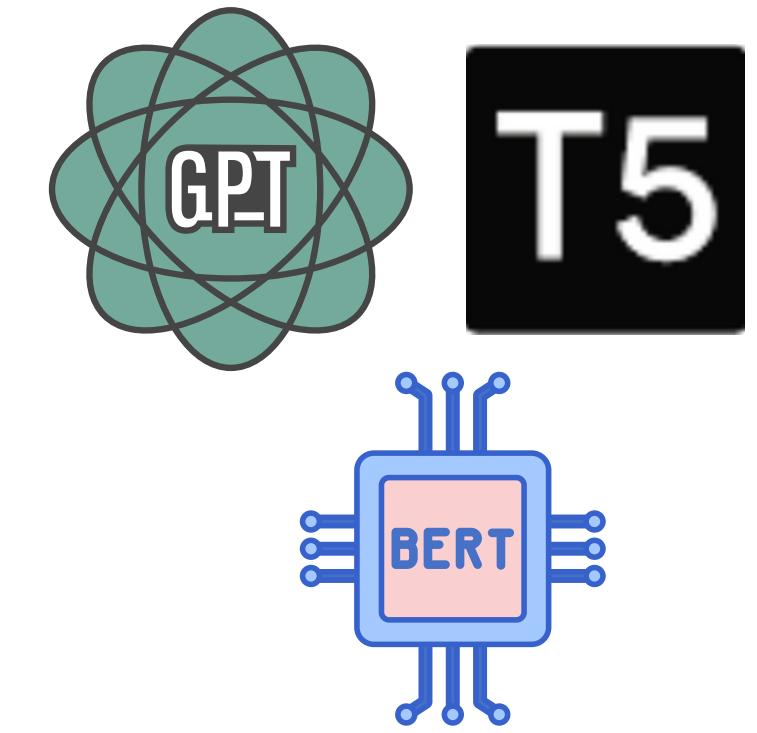
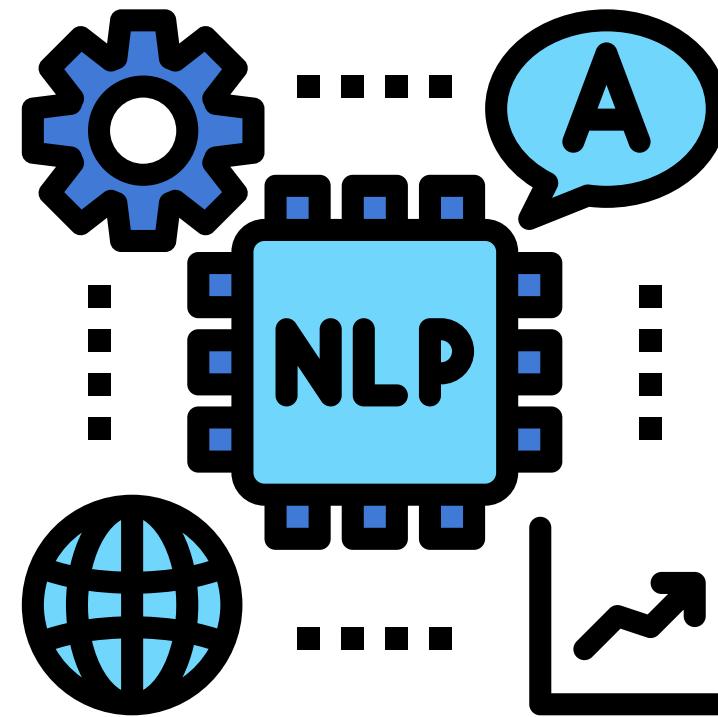
PROMPT ENGINEERING AND DATA ANALYSIS



PROMPT ENGINEERING AND DATA ANALYSIS

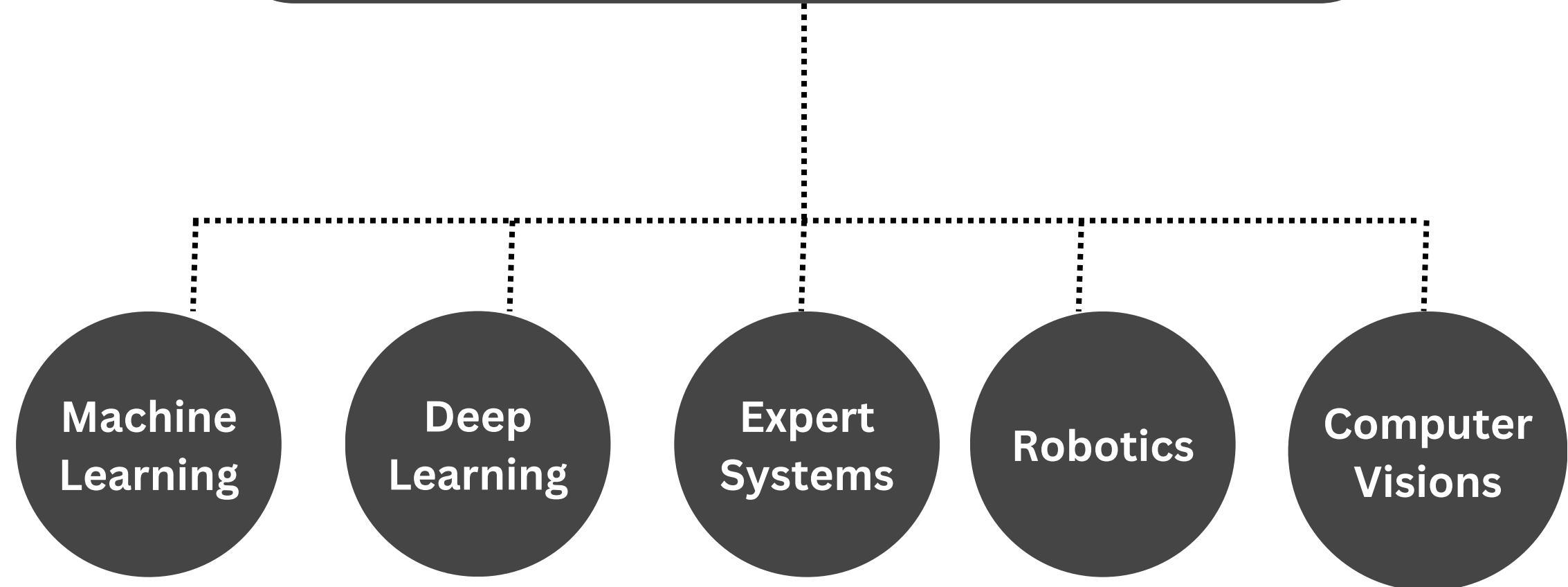


OVERVIEW OF AI, NLP AND LANGUAGE MODELS



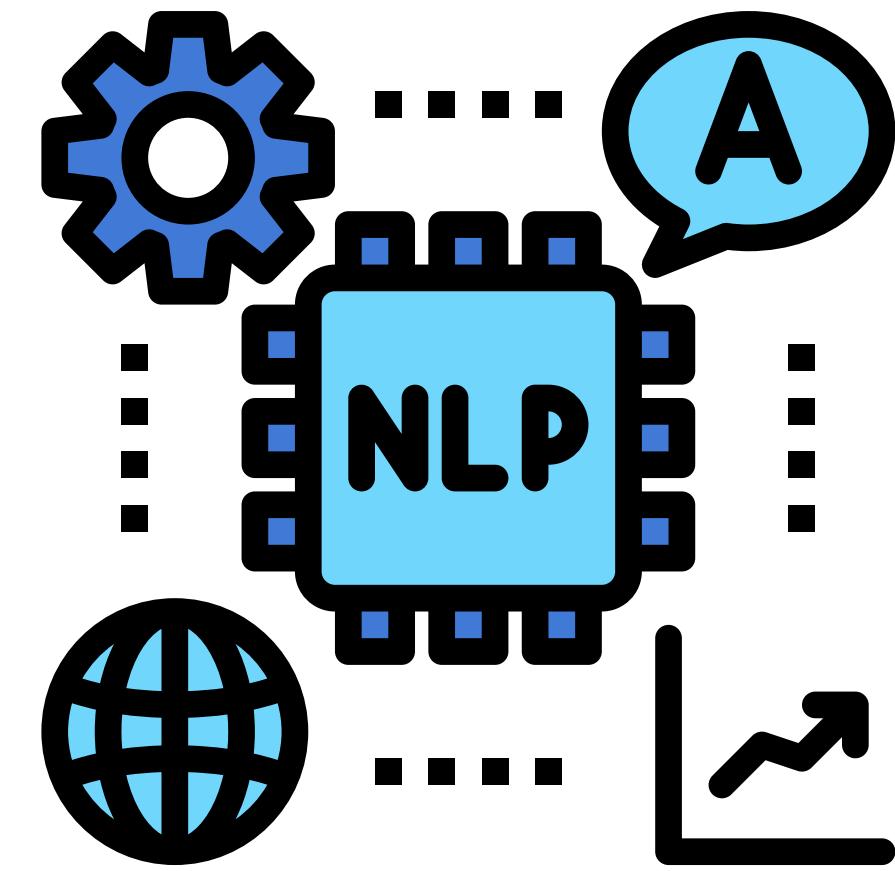
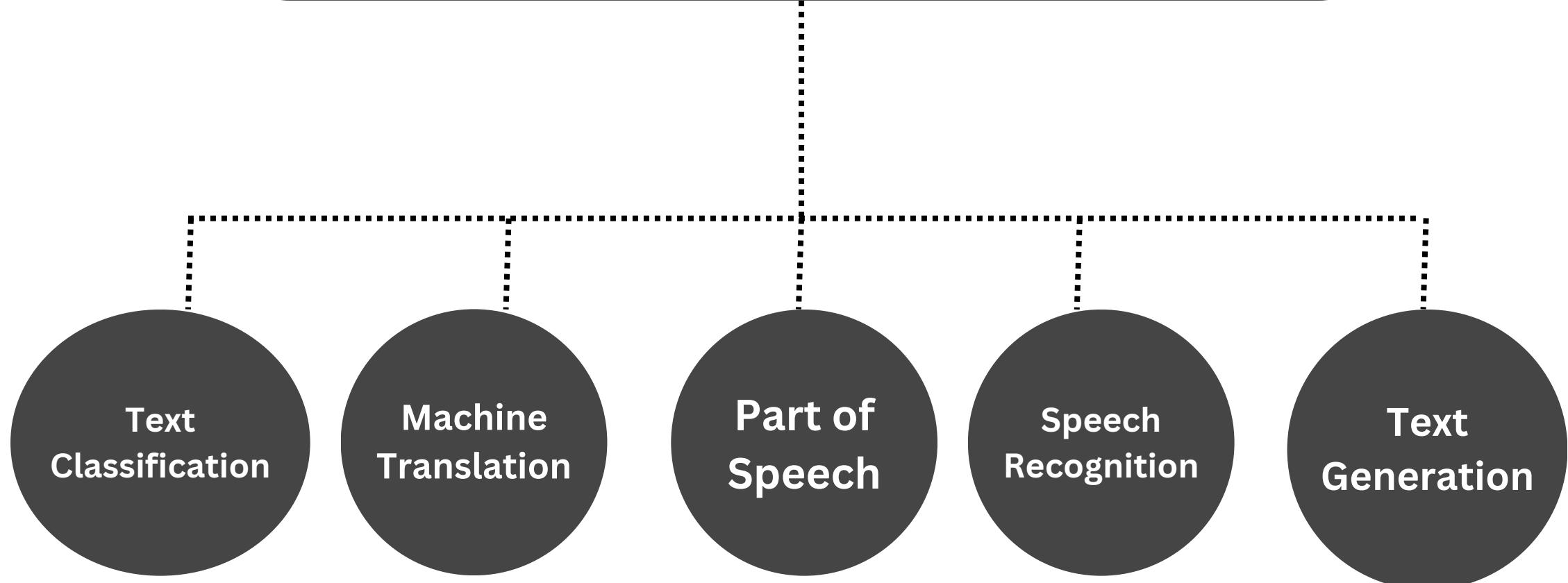
ARTIFICIAL INTELLIGENCE (AI)

COMPONENTS OF ARTIFICIAL INTELLIGENCE (AI)



NATURAL LANGUAGE PROCESSING (NLP)

KEY TASKS IN NLP



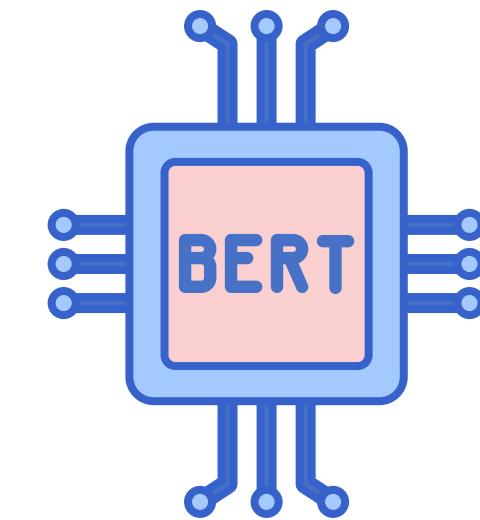
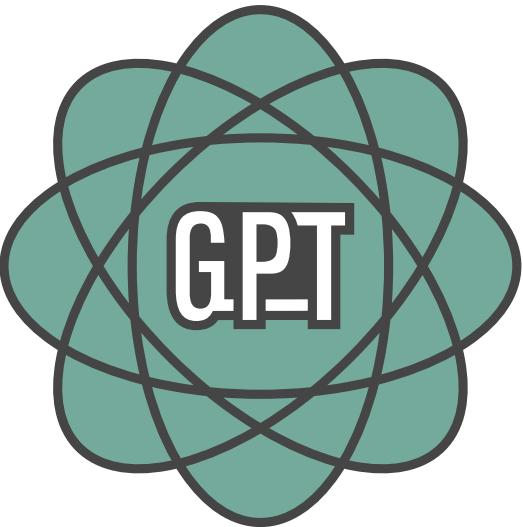
LARGE LANGUAGE MODELS (LLM)

KEY TASKS OF LANGUAGE MODELS

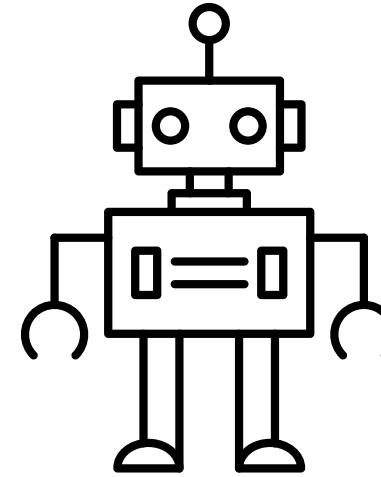
Statistical
Language
Models

Neutral
Language
Models

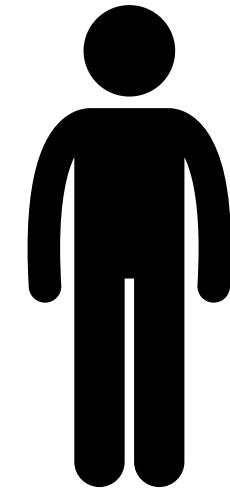
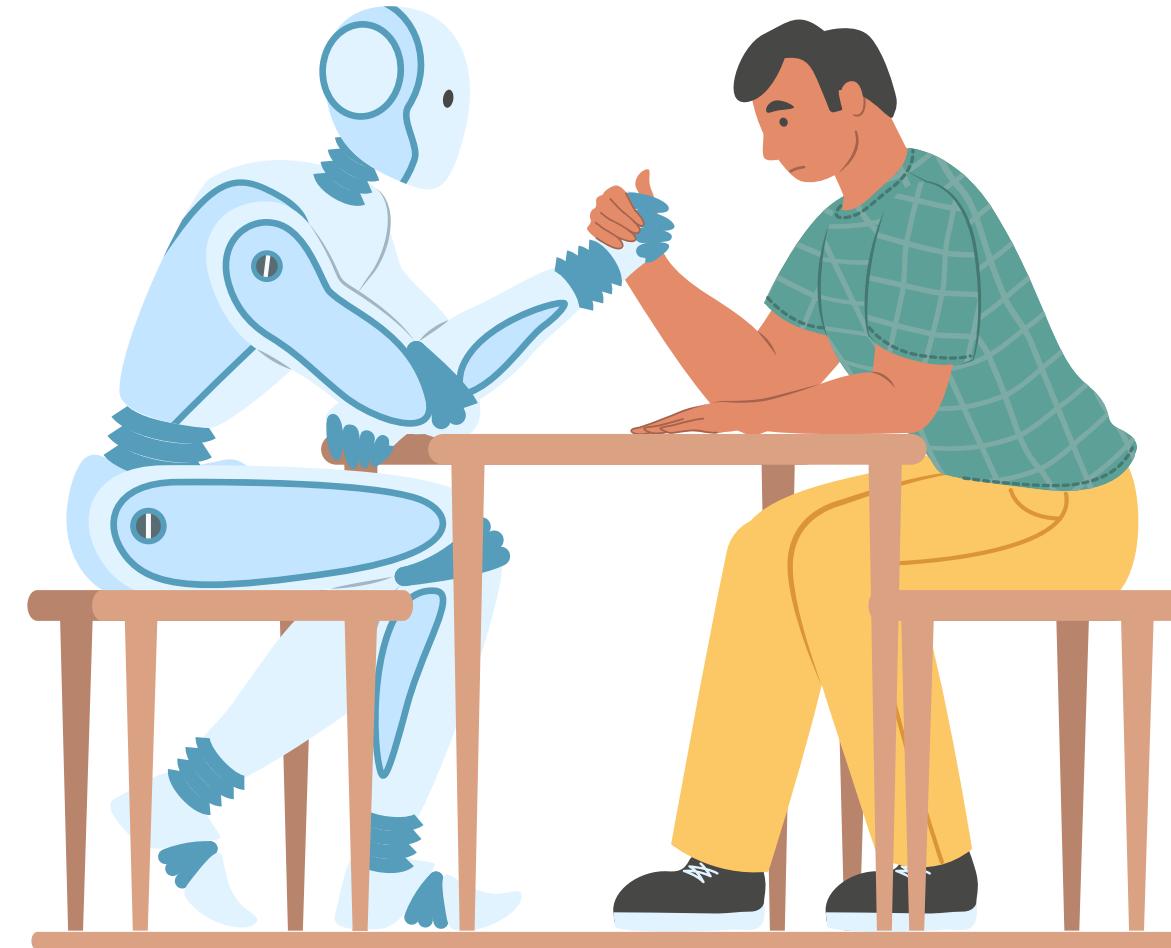
Transformer
Based
Models



CHAT GPT VS HUMAN



CHATGPT IS TRAINED ON A
VAST AMOUNT OF DATA
FROM THE INTERNET



HUMANS POSSESS EMOTIONAL
INTELLIGENCE, CREATIVITY,
INTUITION, AND THE ABILITY
TO UNDERSTAND AND
INTERPRET.

DID YOU KNOW?

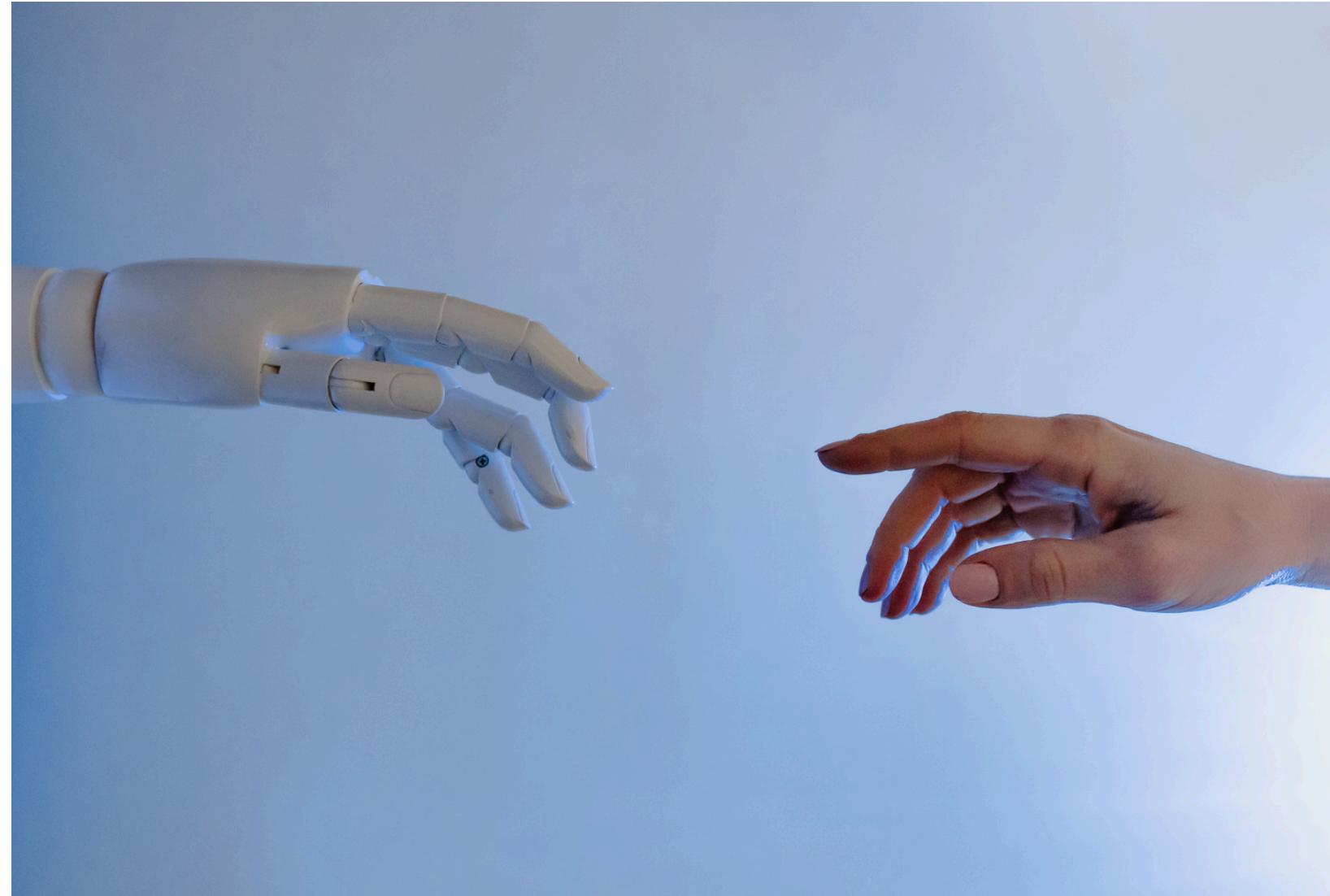
THE HUMAN BRAIN CONTAINS APPROXIMATELY 86 BILLION NEURONS ON AVERAGE.



CHATGPT-3, FOR EXAMPLE, HAS 175 BILLION PARAMETERS, WHICH ARE AKIN TO CONNECTIONS BETWEEN NEURONS IN A BIOLOGICAL BRAIN.

GENERATIVE AI

CAPABILITIES THAT CAN OFTEN BE COMPARED TO HUMAN INTELLIGENCE IN SPECIFIC TASKS.



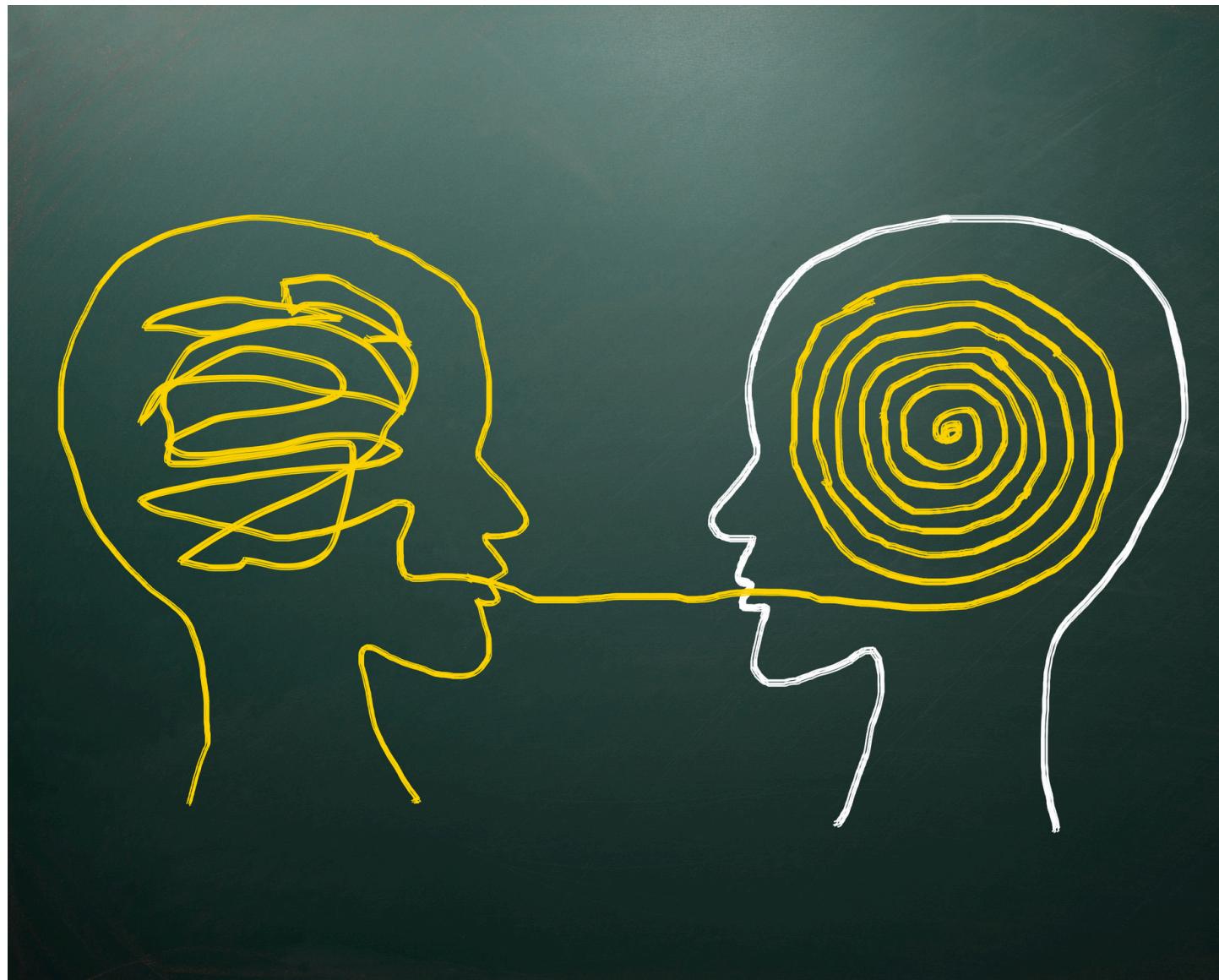
FACTORS OF GENERATIVE AI

HUMAN LIKE TEXT GENERATION



FACTORS OF GENERATIVE AI

CONTEXTUAL UNDERSTANDING



FACTORS OF GENERATIVE AI

MULTILINGUAL CAPABILITIES



FACTORS OF GENERATIVE AI

CREATIVE CONTENT CREATION



FACTORS OF GENERATIVE AI

PERSONALIZATION AND ADAPTABILITY



FACTORS OF GENERATIVE AI

KNOWLEDGE SYNTHESIS



FACTORS OF GENERATIVE AI

REAL TIME INTERACTION



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