UNIVERSIDAD AUTONÓMA DE NUEVO LEÓN
FACULTAD DE INGENIERÍA MECÁNICA Y ELÉCTRICA

Artificial Intelligence

ACTIVITY: 1. Background of AI.

NOMBRE	MATRICULA	CARRERA
Gerardo Lopez Oseguera	1143867	IB

Ing. Daniel Isaias López Páez

SEMESTRE: Enero – Junio 2023

Background of AI

Basic concepts

AI is the field of study that focuses on creating machines that can perform tasks that typically require human intelligence, such as recognizing speech, making decisions, and solving problems. The basic concepts of AI include machine learning, computer vision, natural language processing, and robotics.

Turing Test

The Turing Test is a measure of a machine's ability to exhibit human-like intelligence. The test was introduced by Alan Turing in 1950 and remains an important benchmark for evaluating the capabilities of AI systems

Agents and Environments

In AI, an agent is a machine or software system that acts in an environment to achieve a goal. The environment can be physical or virtual and can include a wide range of stimuli, including visual and auditory inputs, actions, and events. The interaction between agents and their environments is critical for creating intelligent systems.

Foundations of AI

The foundations of AI include mathematical models and algorithms that are used to create intelligent systems. These include decision trees, neural networks, and reinforcement learning algorithms. Understanding the mathematical foundations of AI is crucial for designing and building effective AI systems

History of AI

AI has a rich and diverse history that spans several decades. The field of AI was founded in the 1950s and 1960s and has since grown to encompass a wide range of technologies and applications. Key developments in the history of AI include the introduction of expert systems, the rise of machine learning, and the growth of natural language processing.

Reference:

Russell, S. J. (2020). Artificial intelligence a modern approach. Pearson Education, Inc.