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**Abstract**

The fields of Artificial Science and Data Science are rapidly evolving, with new technologies and applications emerging every day. In this presentation, we will explore the fundamental concepts, techniques, and tools that underlie these two fields, and how they are transforming the world around us.

We will start by introducing the basics of Artificial Science, including machine learning, natural language processing, computer vision, and robotics. We will discuss how these technologies are being used in industries such as healthcare, finance, and transportation, and their potential impact on society.

Next, we will delve into the world of Data Science, where we will explore the key principles of data analysis, statistics, and data visualization. We will highlight the importance of data-driven decision making and demonstrate how these techniques are being used to solve real-world problems in fields such as marketing, customer service, and operations.

Throughout the presentation, we will showcase some of the latest tools and technologies that are available to help practitioners in these fields. We will highlight the role of Python, R, and other programming languages, as well as popular tools such as Tensor Flow, Keas, and Pandas.

By the end of the presentation, you will have gained a deeper understanding of these exciting and rapidly evolving fields and be equipped with the knowledge and tools needed to start exploring these fields further.

**What is Date Science**

Data Science is a multidisciplinary field that involves using scientific methods, processes, algorithms, and systems to extract insights and knowledge from structured and unstructured data. It encompasses a wide range of techniques, including statistics, machine learning, data mining, and visualization.

Data Science involves collecting, cleaning, organizing, and analyzing large and complex datasets to identify patterns, trends, and relationships. It aims to solve real-world problems by using data to drive decision-making and inform strategy. The insights gained from Data Science can be used in various industries, such as healthcare, finance, marketing, and social sciences.

Data Science and Artificial Intelligence (AI) are closely related fields, but they are not the same thing. Data Science involves using scientific methods, processes, algorithms, and systems to extract insights and knowledge from structured and unstructured data. It encompasses a wide range of techniques, including statistics, machine learning, data mining, and visualization.

**Relation between data science and AI**

AI, on the other hand, involves the development of intelligent machines that can perform tasks that would typically require human intelligence, such as perception, reasoning, learning, and decision-making. AI can be classified into two categories: narrow or weak AI, which is designed to perform a specific task, and general or strong AI, which is designed to perform any intellectual task that a human can do.

Data Science is often used to build AI systems. For example, the algorithms and techniques used in Data Science, such as machine learning, are often used to develop AI models that can recognize patterns, make predictions, and classify data. Data Science is also used to preprocess and prepare the data used to train AI models, as well as to evaluate and improve the performance of these models.

**Data Science Stps :**

1. The first step in data science is to gather the necessary data from various sources such as databases, APIs, or websites. The data may be in different formats, such as structured or unstructured, and may need to be cleaned and preprocessed before analysis.

2. The next step involves cleaning and preprocessing the data to ensure that it is suitable for analysis. This may involve tasks such as removing duplicate or irrelevant data, filling in missing values, and transforming the data into a standardized format.

3. Once the data is cleaned and preprocessed, it can be visualized and explored to identify patterns, trends, and relationships. This may involve using statistical tools, data visualization libraries, or machine learning algorithms.

4. Once the data has been explored, predictive models or other statistical algorithms are built and tested to help answer the question or solve the problem

**Conclusion**

Artificial Science and Data Science are two rapidly growing fields that have the potential to transform various industries and solve some of the world's most pressing problems.

Artificial Science is a multidisciplinary field that encompasses various subfields such as Artificial Intelligence, Machine Learning, Robotics, and Natural Language Processing. The aim of artificial science is to create intelligent machines that can perform tasks that typically require human-like intelligence. This field is already making significant contributions to industries such as healthcare, finance, and transportation.

Data Science, on the other hand, is a field that uses scientific methods, processes, algorithms, and systems to extract knowledge and insights from structured and unstructured data. Data Science is being used in industries such as marketing, finance, and healthcare to improve decision-making, predict future trends, and optimize business processes.