Ethical Guidelines Of Artificial Intelligent In Oil & Gas

Author block: S. Malibari, R. Chelak, Saudi Aramco

Abstract

Objectives/Scope: The Oil & Gas industry is one of the biggest industries in the world, and it's no surprise that Artificial Intelligence (AI) is becoming a major part of its operations. AI is used to automate processes, increase safety, reduce costs and much more. However, with the advancement of AI comes ethical challenges should be considered. This paper will explore the ethical guidelines of AI in the Oil & Gas industry.

Methods, Procedures, Process: According to IBM, AI is a field which combines computer science and robust datasets, to enable advanced problem-solving. It also encompasses sub-fields of machine learning and deep learning, which are frequently mentioned under the topic of Artificial Intelligent. This paper will study the ethical challenges of AI technologies, focusing on the intellectual property of AI generated content. As some of the f the key topics is data ownership and the ethical challenges AI generated content. The paper will dig into copy rights laws around AI-created content and who really own these.

Results, Observations, Conclusions: When it comes to AI, defining and translating complex social concepts into technical rulesets is not a simple task. The rise of AI-generated content has led to questions about who owns the intellectual property rights to the content. Traditionally, intellectual property laws have been based on the idea that human creators own the rights to their work. However, AI-generated content is not created by a human author, but instead, by algorithms and machine learning. So, if an algorithm assists in optimizing drilling, or interpreting the subsurface that was not created by a human, can that be patented, and who really owns the methodology. In recent years, both the public and private sectors have issued a series of AI guidelines and codes of ethics. These are however controversial principles that make their enforcement difficult, as they are isolated principles, practiced in industrial and educational systems that largely ignore morality.

Novel/Additive Information: AI ethics in the Oil & Gas Industry is a topic yet to be comprehended. Technology is evolving rapidly, further blurring the distinction between what is man-made and what is machine-made. The paper will discuss the latest AI technology such as Chat GPT, and its ethical impact in the Oil & Gas industry.