Data Science and IoT: The Meeting Point in Digital Transformation and Product Development

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Abstract (300-word limit)

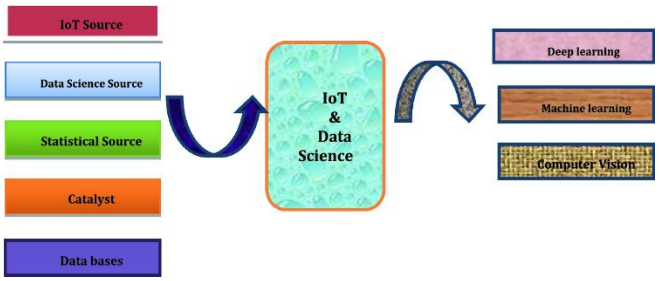
Statement of the Problem: Some of the problems that are being solved by the intertwining relationships between data science and IoT in digital transformation and product development are: Complexity in the ways of doing business, Ambiguity in ways to collect, process and analyze data to make informed business decisions, and Antiquated products in the marketplace leading to frustrating customer experience (CX).

The methodology and theoretical orientation behind the meeting point between data science and IoT revolves around understanding the data science and IoT ecosystems. Data ecosystem refers to the programming languages, packages, algorithms, cloud-computing services, and general infrastructure an organization uses to collect, store, analyze, and leverage data. An IoT ecosystem consists of web-enabled smart devices that use embedded systems, such as processors, sensors, and communication hardware, to collect, send and act on data they acquire from their environments.

With the advent in digital transformation and product development which is principally aided by innovation in the fields of data science and IoT, there have been some findings in these interesting fields such as: Agriculture, Maritime, Manufacturing, Medical and healthcare, Transportation, just to mention a few.

Data is a key pillar for digital transformation because every interaction in the digital world generates data. This data lets you create baselines and benchmarks for your transformation journey and provides a good indicator of progress. IoT helps people live and work smarter, as well as gain complete control over their lives. In addition to offering smart devices to automate homes, IoT is essential to business. This process performed by the IoT platform is what drives digital transformation. The IoT platform that enables the digitization of physical products, and the collection of their data also provides the digital link between a company and its products and customers.

Image



Recent Publications (minimum 5)

1. Olumide O (2021) Bellabeat Fitness Tracker Case Study: Google Data Analytics Capstone Project
2. Olumide O (2021) Exploratory Data Analysis of Product Categories of a Global giant Retail Store.
3. Olumide O (2021) Gourmet Analytics- Data Collection, Analysis, and Insights for the latest chocolate ratings from around the world for Gourmet Analytics.
4. Olumide O (2021) Social Sector Fire Analytics-Exploratory Data Analysis of Fire Incidents in some Nigerian Markets.
5. Olumide O (2021) Palmer Penguins Analysis with R Programming Language



Biography (150-word limit)

Olumide Olaoye has expertise in Client Relationship Management, Product Development and Data Analysis . He has worked and acquired cognate experience in several industries- Telecommunications, Consulting, Consumer Goods and Automotive. He has passion for getting his hands dirty with data by collecting, analyzing large datasets to derive insights to move businesses forward. Currently, he works as a Data Analyst in an automobile firm where he works with the Analytics team to use data to drive business processes. He has published some data science projects focused on Exploratory Data Analysis and Product Sales Forecasting.

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Notes/Comments: