Government Regulations od Data Science

Assignment Week 5

Alla Topp

Regis University

Nowadays whatever industry we work in, we would always face large amount of data and see how "data" is changing the world. The amount of information is growing rapidly in every field every day and it is now a big part of our lives. Data and information are very important because data "might be part of a study helping to cure a disease, boost a company's revenue, make a building more efficient or be responsible for those targeted ads you keep seeing". NSW Government is a great resource for all data related professions and people who work with data. It provides policies in data, how to use data, its importance and guidance on how companies should use data, work with it and benefit citizens.

There are several sections in NSW Government data science plan such as Information Management, Open Data, Shared Data, Spatial Data and Skills and Services. Information management is very important because it keep information organized for using and reusing information and help to use it in practical way. Also, they have guidelines to help agencies protect the information and use it ethically. NSW Government release open data, so it is publicly available. It helps to support transparency, accountability, innovation and new knowledge. NSW mentions that the open data must not contain sensitive information, personal information or any other information that could create an issue. NSW Government have their data accessed and subjected to agreed terms of use. The shared data can be accessed by the request. There is spatial data available through NSW Government and this data is very beneficial to the community. Lastly, NSW Government provides the information about skills and services. NSW provides learning resources for government agencies, decision makers and all who is related to working with data. Those resources help professionals to develop their skillsets, make better decisions, and help them to deliver better services.

I found a great resource on Data Science plan in the USA and it is called Federal Data Strategy Action Plan. This plan is created as a 1-year data plan and its purpose is "to align existing efforts and establish a firm basis of tools, processes, and capacities to leverage data as a strategic asset". It includes the information about data management, how to use data, how to use data strategically and about data policies. It focuses on three main steps: shared actions, community actions, and agency-specific actions. These three steps share 16 actions that they are trying to achieve. The first action is about creating the office of management and budget that would provide data standards, improvements, guidance and information policy development. The second action is about developing a curated data science training and credentialing catalog. It would be useful for federal employees at various stages of development. The third action is about development of a data ethics framework to provide the key points for ethical data management and data strategies. Action four is about developing a data protection toolkit that would avoid the risk of releasing of disparate data sets. Action five is about developing a respiratory of federal data strategy resources and tools to assist agencies with implementing the federal data strategy. Action six is about developing federal statistical research data program that would provide a standardized approach for qualified and trained researchers to access agency data that can`t be public. Action seven and eight are about creating and improving standard federal data catalog kit pilot for metadata management and data hosting capabilities. Action nine is about improving data resources for artificial intelligence research and development. Action ten is about improving financial management data standards to correct incorrect payments, rebalance compliance effort, improve business, financial and acquisition outcomes.

Action twelve is about constituting a diverse data governance body to ensure that agency resources are aligned with agency priorities. Action thirteen is about assessing data and related

infrastructure maturity to make investment decisions and to prioritize subsequent action steps. Action fourteen is about identifying opportunities to increase staff data skills. Professionals working with data should be very knowledgeable and skilled. It requires strong decision-making, data security knowledge, statistics and programming proficiency. Action fifteen is about identifying data needs to answer key agency questions. Action sixteen is about identifying priority datasets for agency open data plans. Those plans are keys to mission success.

Government Data science plans are very important for the government and the society. Nowadays society is data-driven society and we cannot ignore it. Data related professions are lacking a guidance that would help them to be ahead of rapidly growing data and technologies, and such plans that we looked at in this report are amazing. Those plans can help data professionals to develop their skills, secure and protect data, avoid ethical issues and change lives of people.

References

Action Plan - Federal Data Strategy. (n.d.). Retrieved from https://strategy.data.gov/action-plan/

What is data, and why is it important? (2018, September 12). Retrieved from https://www.import.io/post/what-is-data-and-why-is-it-important/