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Title: Women and Children's Health Management Big Data Platform - A Case Study of the National Health and Family Planning Commission of the People's Republic of China

Topic: Data Science

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By presenting the Women and Children's Health Management Big Data Platform, I will introduce the construction of the Big Data Analysis Platform of China's National Health and Family Planning Commission and also discuss the latest trends and methods in data statistics.

In particular I will examine the following questions:

How do we define both *Structured and Unstructured Data*? How do we get the *Population Registration Data* from the system of the *Ministry of Public Security*? How do we get the *Medical Institutions Data* from the system of the *State Administration for Industry and Commerce*? How do we get *GIS Data* from the system of the *Ministry of Land and Resources,* etc.? At the same time, how does the data provided and analyzed by this *Big Data Platform* help the medical administrators make fundamental decisions? I will also introduce the various components of the platform: the *Computation Engine*, the *Data Integration and Exchange System*, the *Storage System*, the *Analysis and Mining Services*, the *Platform Operation* and the *Protection and Maintenance*. Finally, I will examine the *Data Integration Framework*, the *Architecture* and the *Database* of this particular *Big Data Platform*.

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