

MEDICAL DEVICES IMPORT LICENSE - NON LOCAL

DATA NINJAS

HADOOP ECOSYSTEM

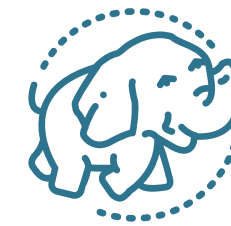
BigData & AI bootcamp

27/11/2022





OUR TEAM



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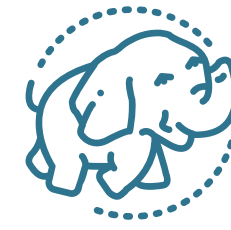
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OUR OUTLINES



- Big Data in Government Sector
- Saudi Food and Drug Authority
- Problem Statement
- Dataset
- Dashboard
- Hadoop MapReduce
- Conclusion

BIG DATA IN GOVERNMENT SECTOR

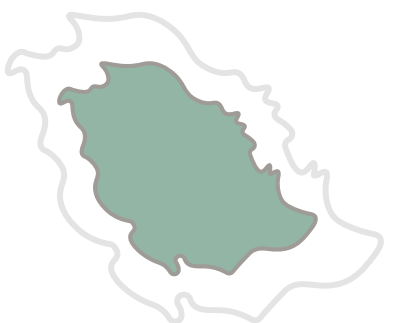
- Analytics through big data management techniques allows governments to understand the needs of their citizens, combat fraud, minimize system errors and improve operations, reducing costs and improving the services of any government entity.
- Governments have access to diverse sources of data and can use it in a variety of ways, such as improving law and order, defense services, social services, environmental programs, and developing more citizen welfare programs.





SAUDI FOOD & DRUG AUTHORITY (SFDA)

- SFDA was established under the Council of Ministers in 2003, as an independent body corporate that directly reports to The President of Council of Ministers.
- The main objectives of the SFDA is to ensure safety of food, drug for human and animal, safety of biological and chemical substance as well as electronic devices that related to human health.



SAUDI FOOD AND DRUG AUTHORITY (SFDA)

الهيئة العامة للغذاء والدواء
Saudi Food & Drug Authority



**The
Authority**



Food



Drugs



**Medical
Devices**



Feed



Tobacco



Pesticides



Laboratories



Cosmetics



Halal



Nutrition



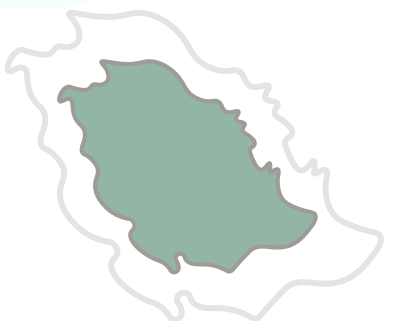
SAUDI FOOD & DRUG AUTHORITY (SFDA)

- Medical Devices Sector at Saudi Food and Drug Authority plays a pivotal role ensuring safety, efficacy and performance of medical devices under a comprehensive legislation and regulation.
- Medical Devices Regulation covers the entire lifecycle for medical devices starting from the idea, concept, manufacturing process and ending by reaching the product to end users in addition to monitoring the performance and safe use of medical devices.



PROBLEM STATEMENT

- The problem that Saudi Arabia suffers from importing medical devices is the high cost and dependence on other countries.
- The Saudi health sector is the largest in the Gulf countries in terms of government spending, according to a report issued by Ardent Advisory and Accounting.
- Investors in the medical industries need clarity of laws and regulations so that they can study risks better and more effectively.



PROBLEM STATEMENT QUESTIONS

Why The amount of import of medical devices is large in **Saudi Arabia**?

- KSA Medical Devices Market is a highly price-sensitive market relying heavily on foreign imports due to the underdevelopment of the domestic medical device industry.

Are there **locally** manufactured devices?

- 40% of locally manufactured devices are single-use devices made out of plastic. Other products are reusable surgical instruments, detergents, solutions, general IVD, hospital furniture, and dental and ophthalmic products.

The reason why the **lower share** of domestic production?

- The lower share of domestic production is majorly due to a lack of capabilities and fewer numbers of local manufacturing companies in the KSA



DATASET OVERVIEW

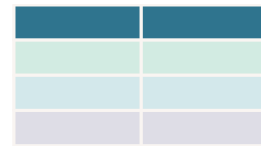
• Dataset Size:

4.6 KB



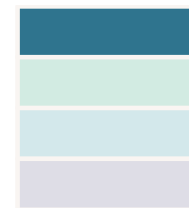
• Number of Columns :

10



• Number of Rows :

80 k



DATASET COLUMNS

- Trade Name



Is the name given by the company that makes the medical device and is usually easy to say for sales and marketing purposes.

- Generic Name



Is something that is sold on the name of the product.



DATASET COLUMNS

- Issue Date



Is the date when the original device is produced.

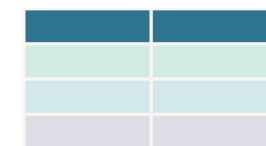
- Expiry Date



Is the date after which the device is no longer in effect.



DATASET COLUMNS

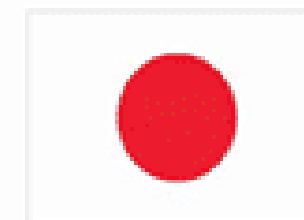


- Manufacture Country

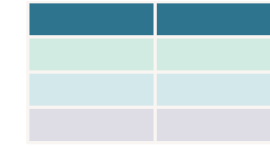


- Is Local Manufacturer

- Jurisdiction



DATASET COLUMNS



- Device Type

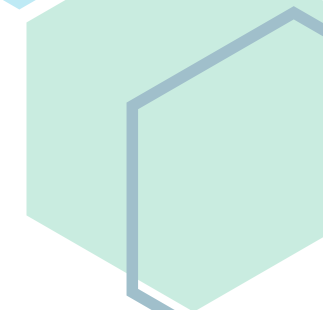
- (1) Medical Device.
- (2) In Vitro diagnostics (IVDs).
- (3) Active Implantable Medical Devices (AIMDs).

- Classification

Class I Class II
Class III Class IV

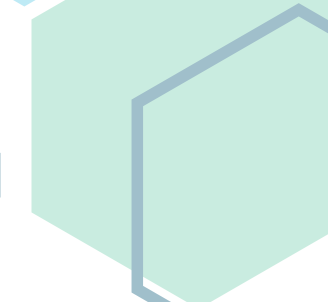
- Accessories





DASHBOARD





HADOOP MAP-REDUCE





SAUDI EFFORTS IN THE MEDICAL DEVICES INDUSTRY

1

- Setting executive regulations to be clear to **investors** and **workers** in the medical device sector

2

- It aspires to **develop** the medical devices and supplies industry up to 15 %, which includes consumer medical supplies, and simple, medium, and high sterilization devices.

3

- Increasing the rate of **localization** of the device industry (transferring information in the field of medical supplies).



CONCLUSION

- In the year 2022, Saudi Arabia signed a joint agreement to localize the medical device industry, which moves to the Kingdom of Saudi Arabia with 3 companies from **Finland**, **Spain**, and **China**, in the field of medical manufacturing, technical solutions, and health care.
- This agreement comes in support of “**Made in Saudi Arabia**” endeavors.



RESOURCES

1. <https://www.spa.gov.sa/viewfullstory.php?lang=ar&newsid=2324080>
2. <https://istitlaa.ncc.gov.sa/ar/health/sfda/MDSuppliesSystem/Pages/default.aspx>
3. <https://www.ic.gov.sa/en/industries/medical-devices/overview/>



THANK YOU

ANY QUESTIONS 

