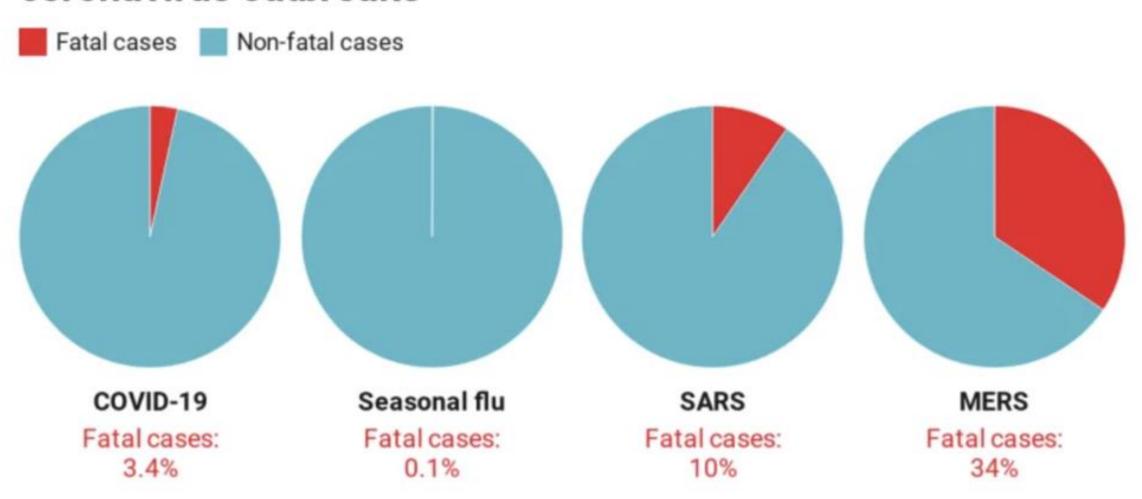
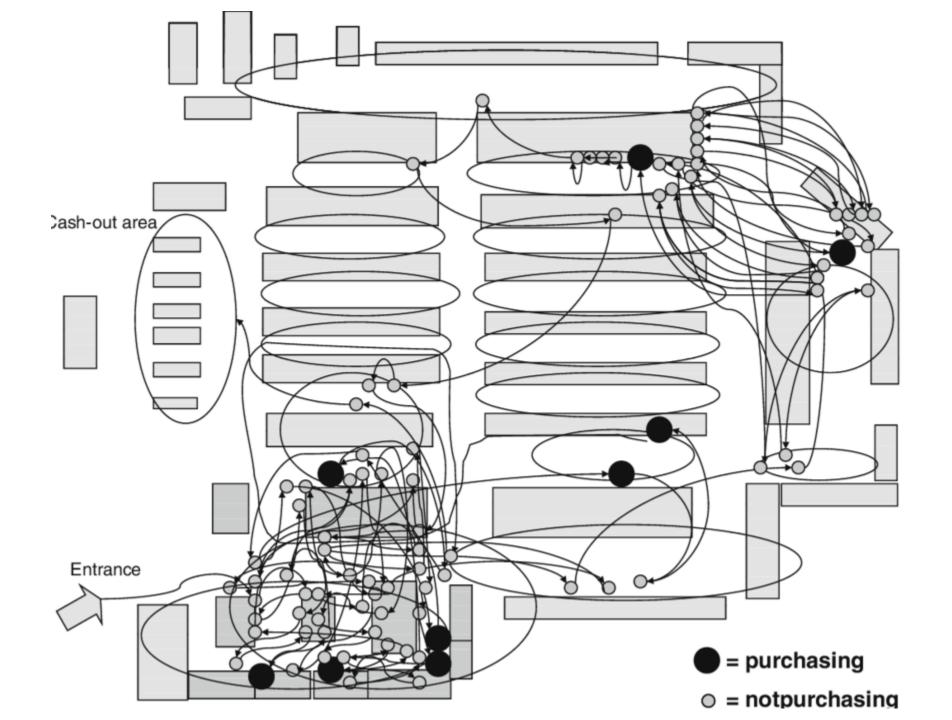
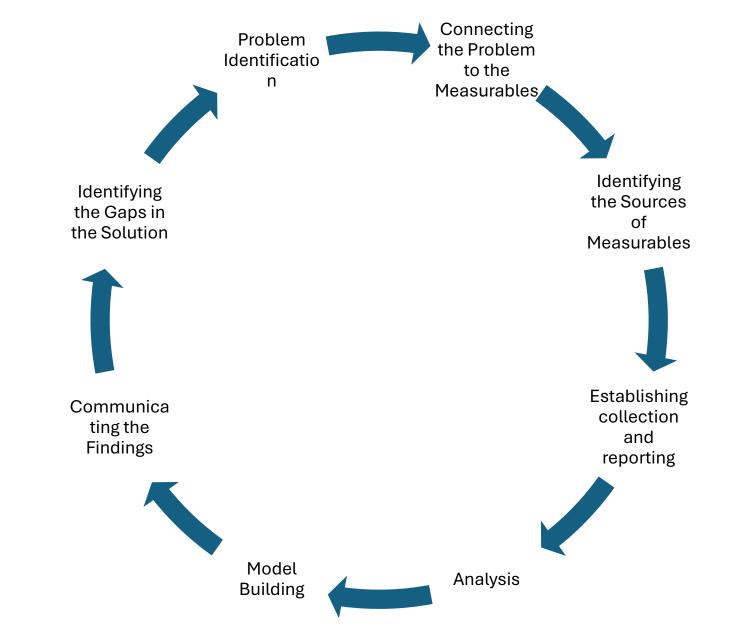


COVID-19 looks a lot closer to the season flu than to previous coronavirus outbreaks





The Process



Types of Analytics

Descriptive

Prescriptive

Predictive

Number

Class



1.43 TRILLION GIGABYTES I of data will be created by 2020, an increase of 300 times from 2005



It's estimated that 2.5 QUINTILLION BYTES

I 2.0 TRILLION GIEARYTES:

of data are created each day







WORLD POPULATION: 7 BILLION

Volume

SCALE OF DATA

Most companies in the U.S. have at least

OO TERABYTES

100,000 BIEARYTES

of data stored

The New York Stock Exchange captures

1 TB OF TRADE INFORMATION

during each trading session



Modern cars have close to 100 SENSORS

that mon tor items such as fuel level and fire pressure

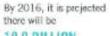
Velocity

ANALYSIS OF STREAMING DATA

YYYYYYYYYY

there will be

18.9 BILLION NETWORK CONNECTIONS



The FOUR V's of Big **Data**

and services that the world refus on every die-But what exactly is big data, and how can these

As a leader in the sector, IBM data scientists break big data into four dimensions. Volume, Velocity, Variety and Veracity

mobile devices. Companies can leverage data to infrastructure, and find new sources of revenue.

4.4 MILLION IT JOBS



As of 2011, the global size of data in healthcare was estimated to be

150 EXABYTES

[161 BILLION SIGABYTES]



Variety

DIFFERENT **FORMS OF DATA**



By 2014, it's anticipated

WEARABLE, WIRELESS

HEALTH MONITORS

there will be

420 MILLION

are watched on YouTube each month



are sent ber day by about 200 million monthly active users



PIECES OF CONTENT are shared on Facebook

30 BILLION



1 IN 3 BUSINESS LEADERS

don't trust the information they use to make decisions.



economy around \$3.1 TRILLION A YEAR

Poor data quality costs the US





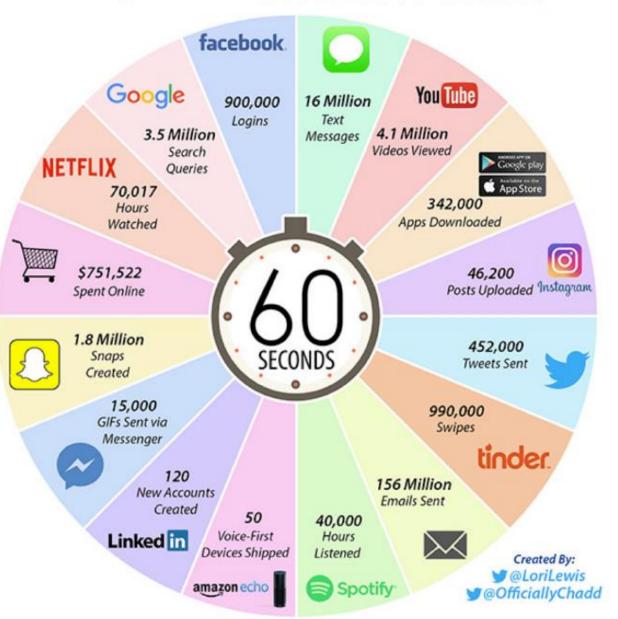
27% OF

in one survey were unsure of how much of their data was inaccurate

Veracity

UNCERTAINTY OF DATA

2017 This Is What Happens In An Internet Minute



2018 This Is What Happens In An Internet Minute



Case Studies of Big Data Success



Retail: Personalized Marketing and Inventory Management

Big Data Utilization

Retailers leverage big data to gain insights into customer preferences and behaviors, enabling personalized marketing strategies.

Personalized Marketing Campaigns

Personalized marketing campaigns tailored to individual customers improve engagement and drive sales, enhancing the shopping experience.

Optimizing Inventory Management

Effective inventory management through data analysis ensures that retailers meet customer demand while minimizing excess stock.

Finance: Fraud Detection and Risk Management



Real-Time Fraud Detection

Big data analytics enables financial institutions to detect fraudulent activities as they occur, enhancing security measures.



Risk Assessment

Data analytics plays a crucial role in assessing risks associated with financial transactions, improving decision-making processes.



Enhanced Security and Compliance

Utilizing big data analytics ensures better security and compliance for financial institutions, protecting them from potential threats.



Healthcare: Predictive Diagnoses and Treatment Plans

Role of Big Data

Big data plays a crucial role in healthcare by enabling providers to analyze vast amounts of patient data for better outcomes.

Early Diagnoses

Predictive analytics allows for early diagnoses, helping healthcare providers identify diseases before they become critical.

Customized Treatment Plans

Using patient data trends, healthcare providers can create customized treatment plans that cater to individual needs.

Challenges and Future Trends in Big Data



Data Privacy and Security Concerns

Growing Privacy Concerns

As more data is collected, businesses face increasing concerns about consumer privacy and data misuse.

Importance of Data Protection

Implementing strong data protection measures is essential to safeguard sensitive information and uphold customer trust.

Compliance and Trust

Maintaining compliance with regulations is vital for businesses to build and retain trust with their customers.



Skills Gap and the Need for Data Literacy

Rising Demand for Data Literacy

The workforce increasingly requires data literacy skills to analyze and interpret data effectively, impacting decision-making processes.

Bridging the Skills Gap

Organizations need to invest in training programs that develop employees' data analysis and interpretation skills to remain competitive.

Impact on Organizations

Enhancing data literacy within organizations leads to improved efficiency, innovation, and informed decision-making.

IMPLEMENTATION

Organizational Data Readiness Levels

Level 1

Aware + Unsure of Implementation

Level 2

• Aware + Collection + Basic Reporting

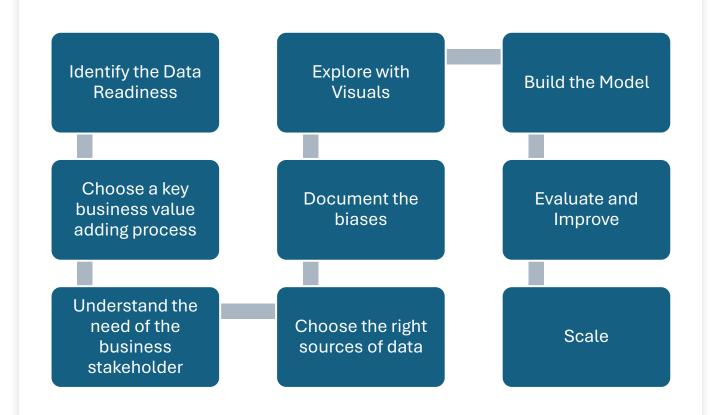
Level 3

 Aware + Collection + Statistical Tests and Forecasting

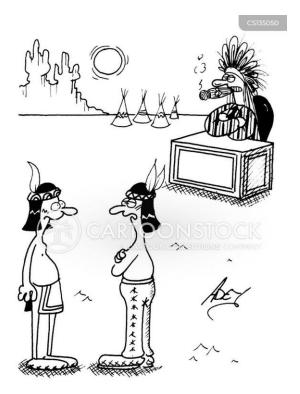
Level 4

Data as the core of business model

Implementation Approach

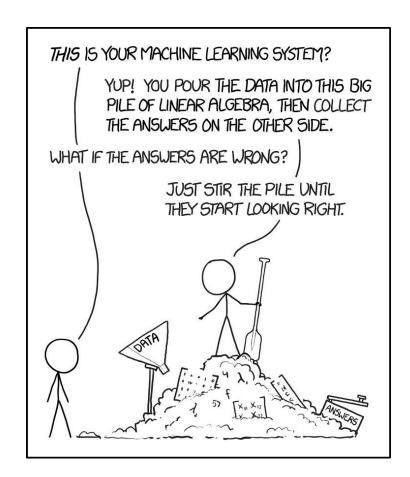


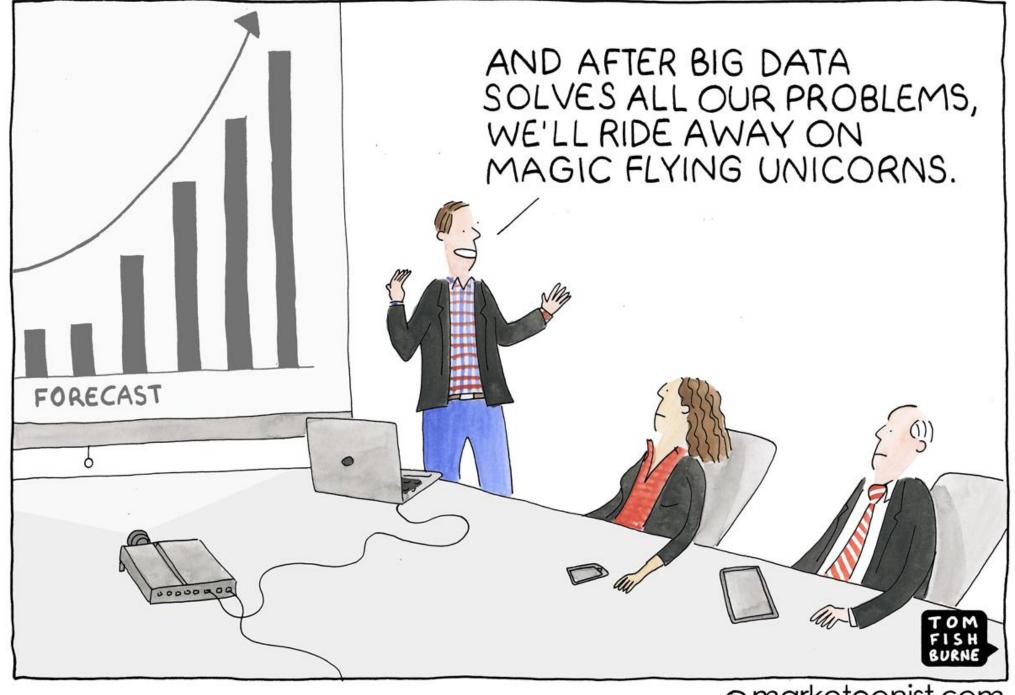
Unfortunately, Challenges Abound



"That Chief Executive."







@marketoonist.com



Thank You

saqiful@gmail.com

https://www.linkedin.com/in/saqifula lam