# Bigdata in Modern Business

Vinh Huynh 01/2024

# Agenda

1. About Speaker
2. What is Bigdata?
3. The Role of Bigdata in Modern Business
4. Type of Data Analytics
5. A Typical Modern System Architecture
6. Data Platform Architecture
7. Role of Stakeholder in Data Platform
8. Skills & Popular Tech Stacks
9. Q&A

# 1.About Speaker

## Mr. Vinh Huynh

VinHMS (Vingroup)
CTO and Head of Product

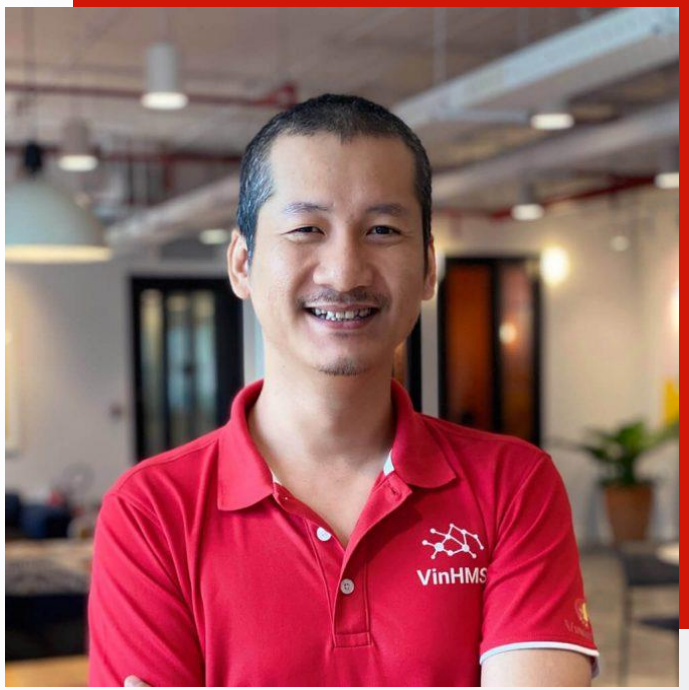
VieOn (DatvietVAC Group Holdings)
Technical Director

GalaxyPlay (Galaxy Play JSC)
Software Development Manager

New Horizon Internet JSC
Head of Product & Service Development Division

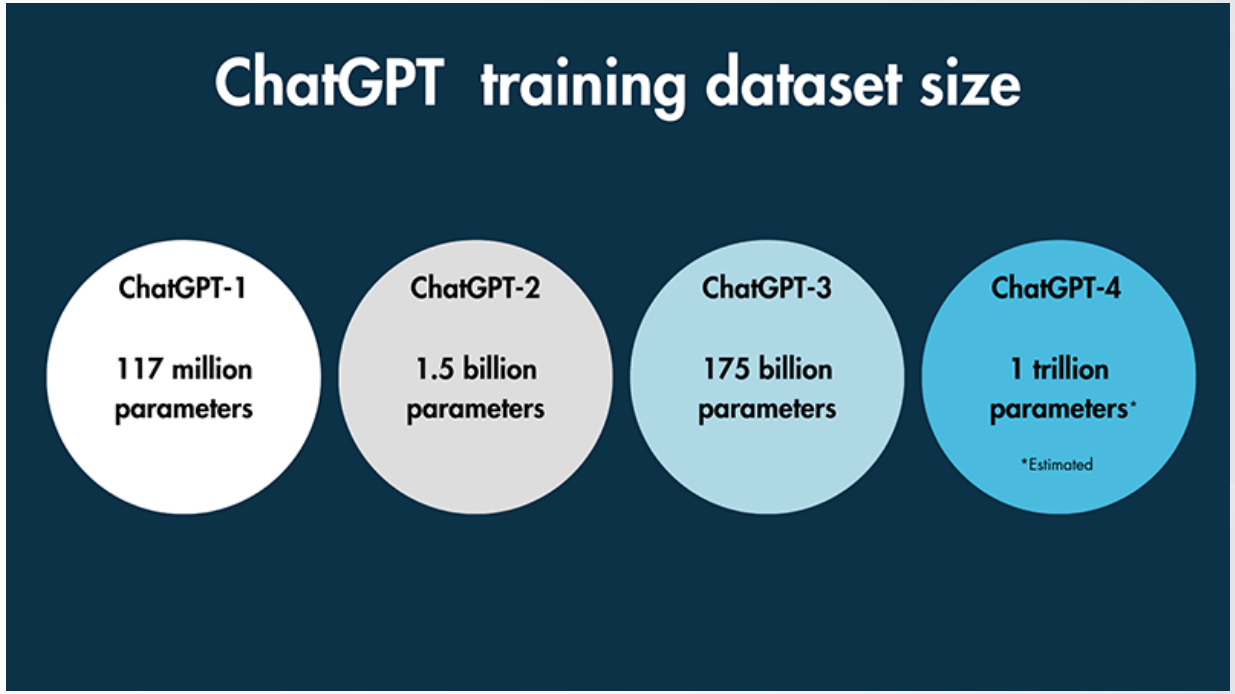
Lekima Co., LTD
Co-Founder & Product Manager

...
Software Engineer



# 2. What is Bigdata?

- **Volume:** We're talking Earth-sized volumes of information — zettabytes and beyond. Companies store these gargantuan amounts of data daily, everything from customer transactions and interactions to website clicks and social media activity. This raw data is the bedrock for sophisticated analytics.
- **Velocity:** Think lightning-speed! Data is pouring in from all sources, constantly, in real-time, faster than the average human can comprehend. This relentless influx of information is what gives Big Data its dynamic and ever-evolving nature.
- **Variety:** Data comes in many shapes and sizes — structured tables, messy tweets, complex images, even geo-locations from your last shopping spree. Variety confers richness, as different data forms yield different insights.




PhoGPT

7.5 billion parameters

ViGPT

x billion parameters

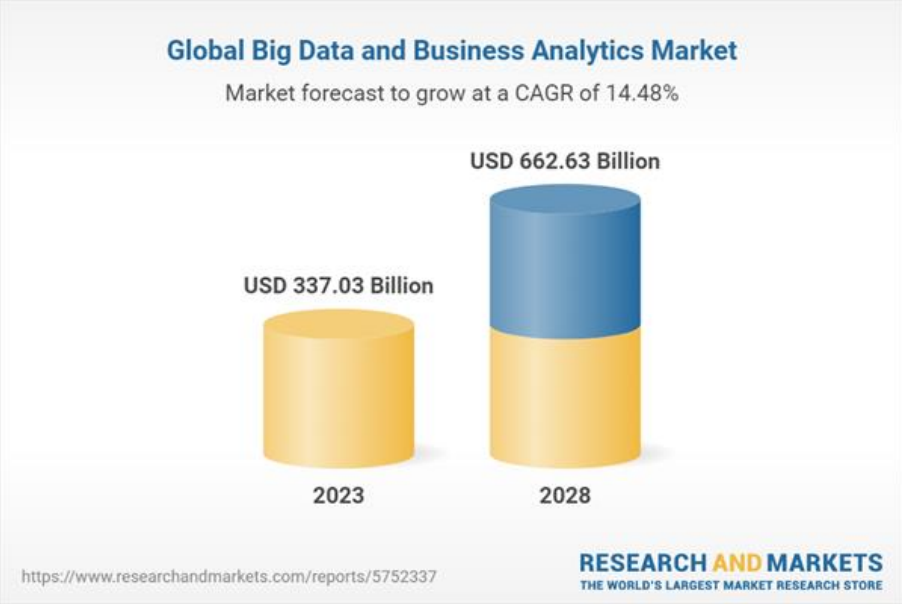
VinHMS

# 3. The Role of Bigdata in Modern Business

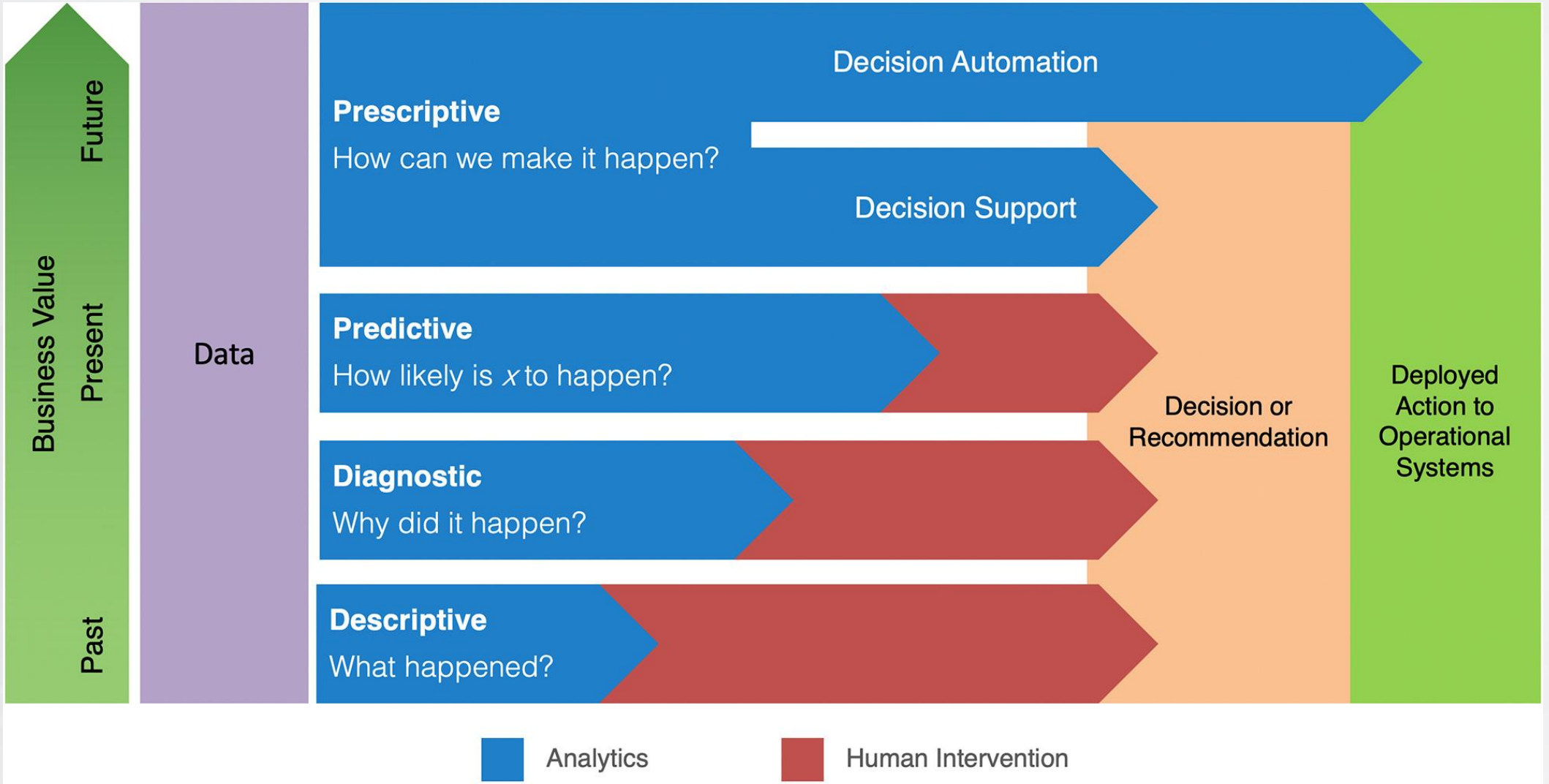
1. Personalization
2. Data-Driven Decision Making
3. Operational Efficiency
4. Market Analysis
5. Risk Management
6. Innovation
7. Retail: From Shelves to Screens
8. Healthcare: The Tech-Driven Doc
9. Banking: Secure and Smart
10. Agriculture: The Future Farmer
11. Cybersecurity
12. Transportation

**The Future of Big Data in Business:**

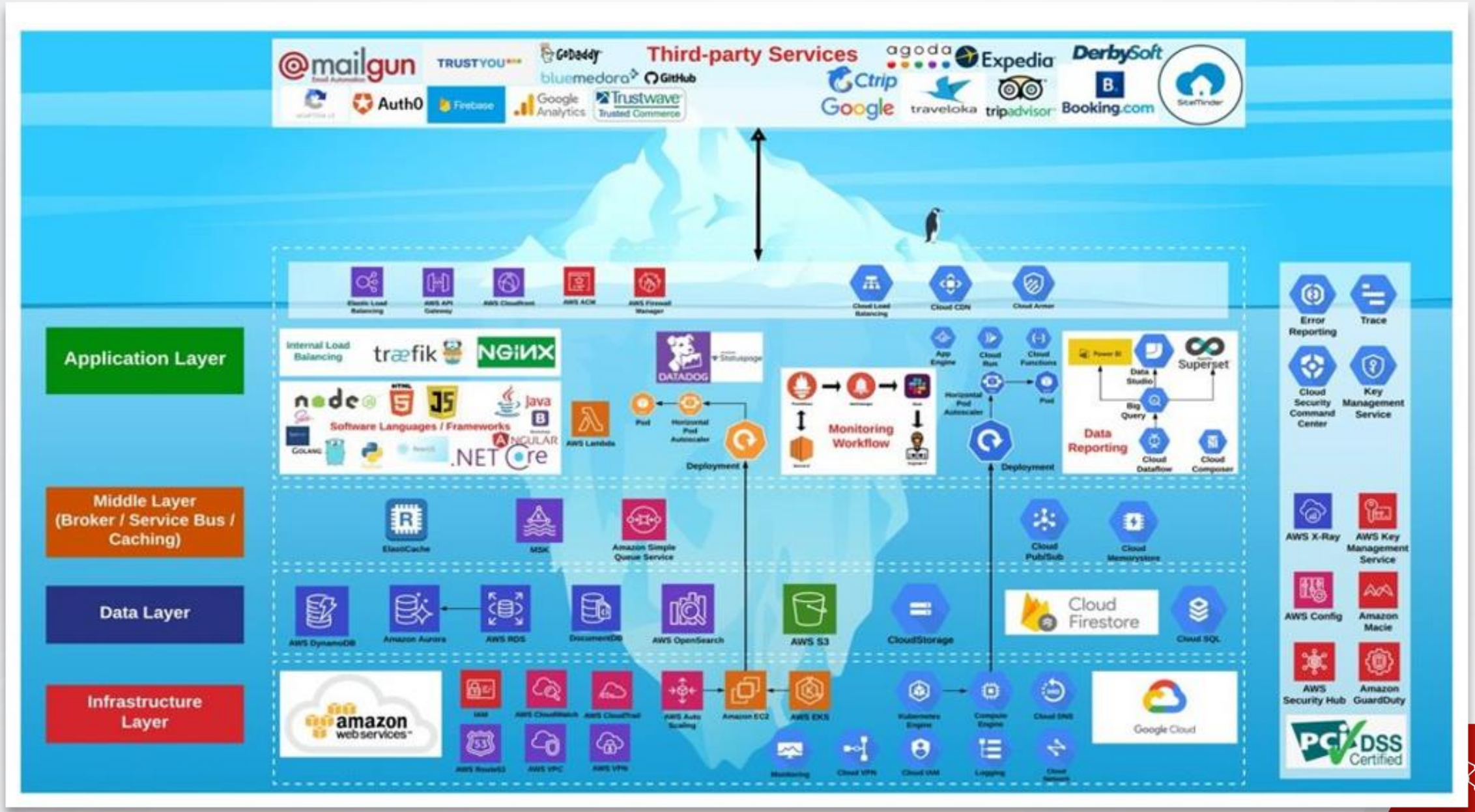
Linking it with **AI and machine learning**, the future of Big Data in business appears dazzling. We're not only looking at the possibility of real-time analytics but also at more meticulously tailored experiences, thanks to the predictive capacity of AI



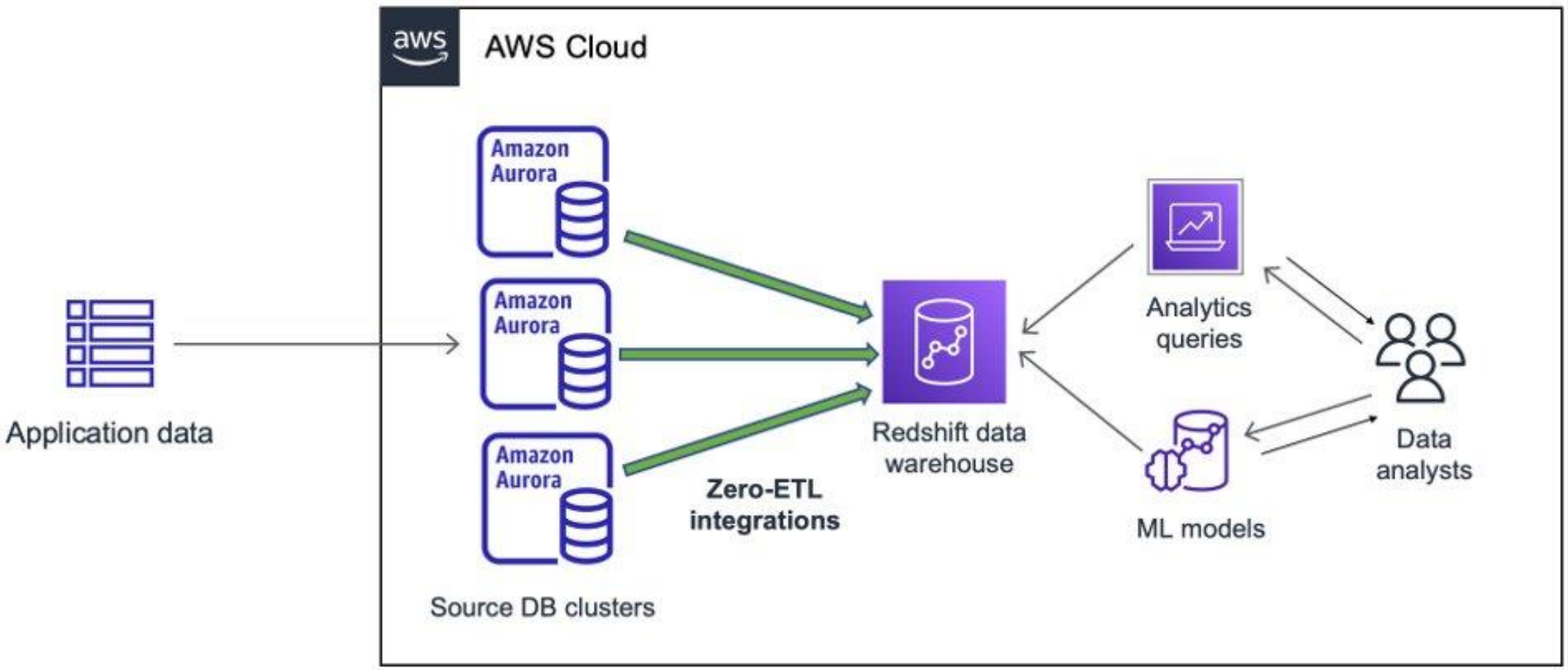
# 4. Type of Data Analytics



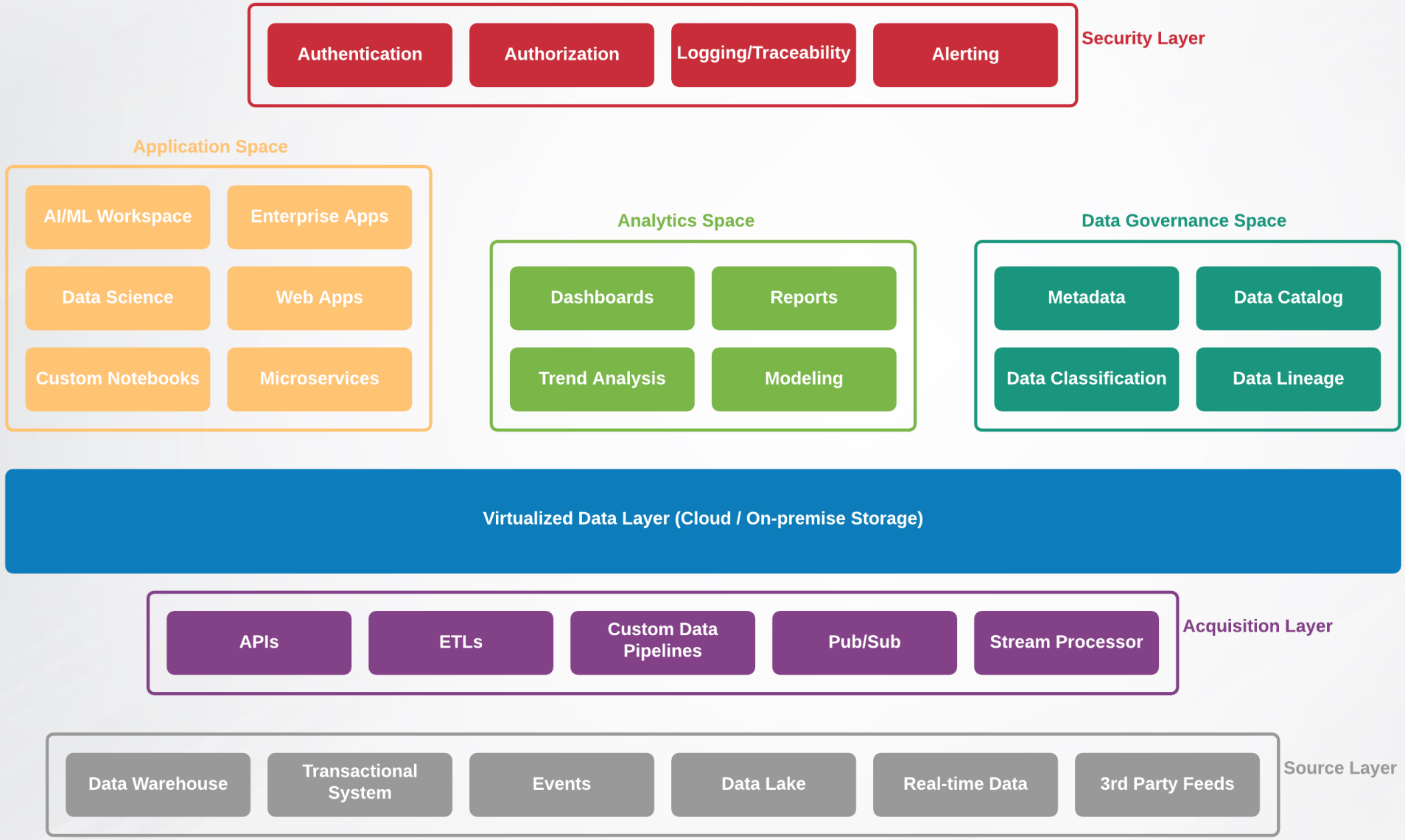
# 5. A Typical Modern System Architecture



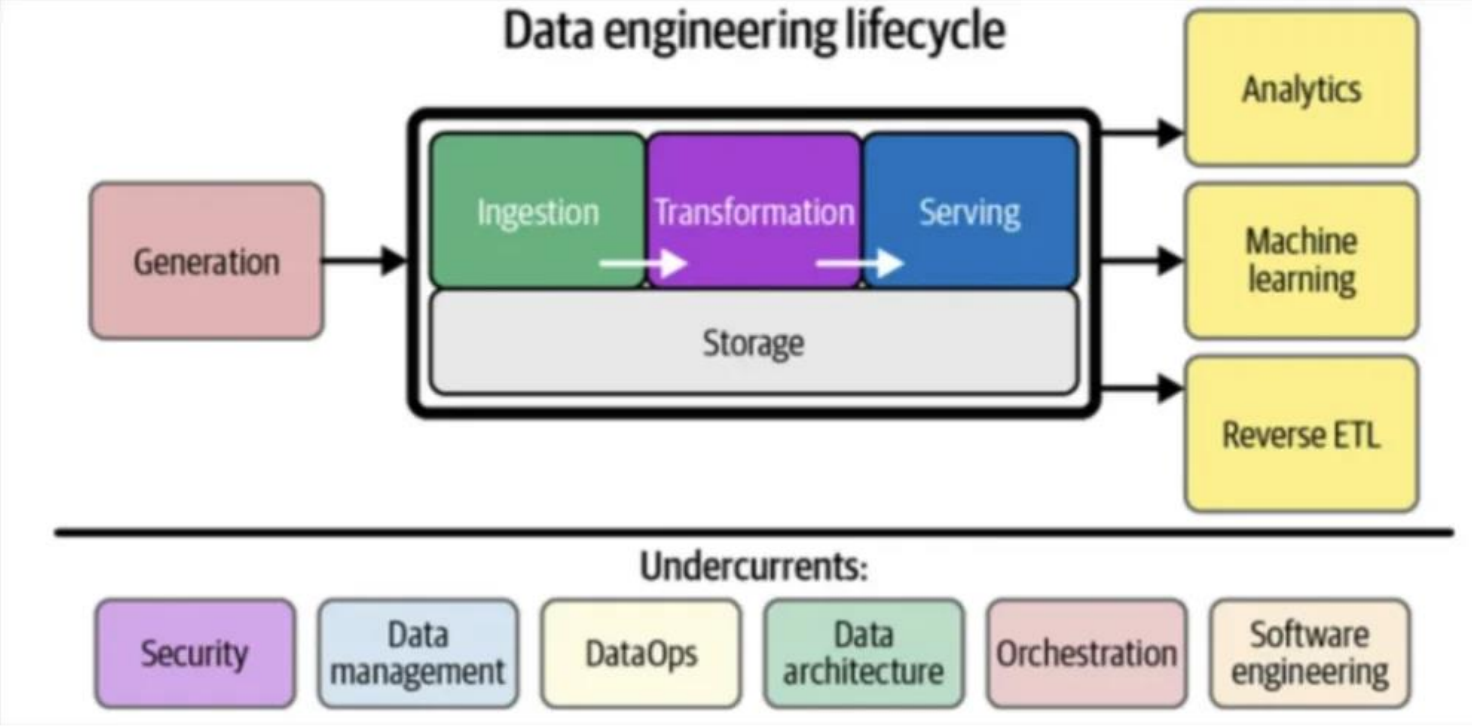
# 6. Data Platform Architecture (Basic)

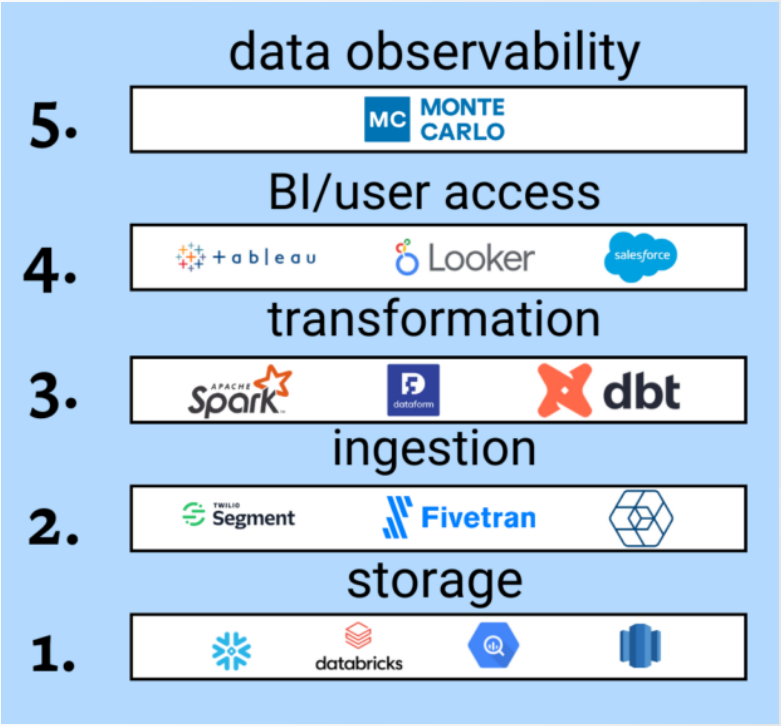


# 6. Data Platform Architecture (Full)



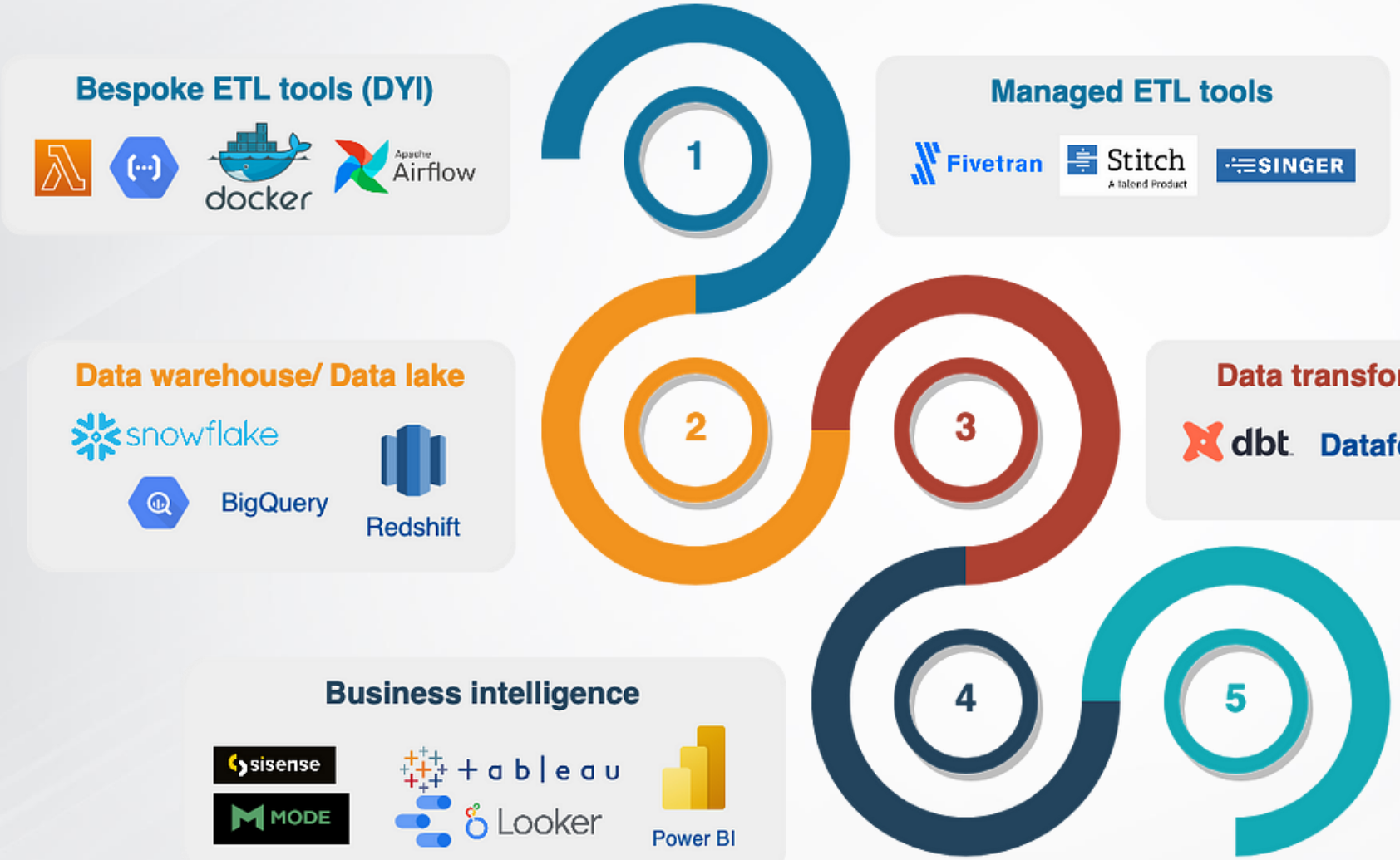
# 7. Role of Stakeholder in Data Platform




1. Data Analyst/Data Scientist
2. Data Engineer
3. DataOps Engineer (DevOps)
4. Software Engineer

# 8. Skillset & Popular Tech Stacks




1. Python
2. R
3. Java
4. Scala

# 9. Q&A

# Appendix - [Bigdata Landscape (2023)]