

7/11/2022

DATA SCIENCE INDUSTRIES

Common Themes

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Variety of Jobs

Data Engineer

- Pipeline management
- Heavy on the SE
- Backend vs Frontend
- Data collection
- Rigorous testing
- All kinds of data
- Real time uptake
- Model retraining/soft starts
- Sensitive Information

Data Analyst

- Inference and Insight
- A/B testing!!
- Business Intelligence
- Tableau, Power BI - Dashboarding
- Can be SQL heavy
- Consulting vs Inhouse
- Work closely with other teams

Data Scientist

- Data modelling
- Data decisions
- Predictive & Inferential
- Full project cycle
- Model deployment
- Exploratory
- A/B testing design
- More senior roles
- Data is industry dependent

ML Engineer

- Modelling!
- Improving efficiencies
- Deep learning - AI
- Product development
- Experimental
- Predictive
- Maintenance/management

Popular Industries



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E-Commerce

Amazon, Ebay, Etsy, Clothes etc...

- Customer experience
- A/B testing
- Recommendations
- Pricing models

Finance

Stock Market, Banking, Fintech

- Fraud models
- Time series
- Retention
- Loan default models

Medical

Hospitals, Insurance, Preventive

- Diagnostic tools
- Image recognition
- Drug testing
- Health wellness

Sports

Teams, Agents, Players, Coaches

- Draft analysis
- Injury prevention
- Shot modeling
- Betting!

Other Mentions

There is a data science need in almost any industry/position

Hard Science

Social Justice

Government

Big Tech

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Data Science in Science

Modelling is becoming a powerful tool for scientists across fields

- Climate scenarios (IPCC)
- Fish stocks and sustainability
- Deforestation and habitat loss
- Genetic analysis
- Drug/chemical discovery

Big Tech - Internal

Companies directly involved in the handling, storage, collection, and use of big data

- Cloud services (AWS, Azure, Oracle etc...)
- Supercomputing
- Business tools & integration
- Large Language Models (Chatgpt)
- FANG jobs (\$\$\$\$\$\$)

E-Commerce

- Profile Data (Customers & Content)
- Text Data (NLP)
- Subscriptions
- Retention
- Sales Data
- Website design
- Customer feedback



Instagram

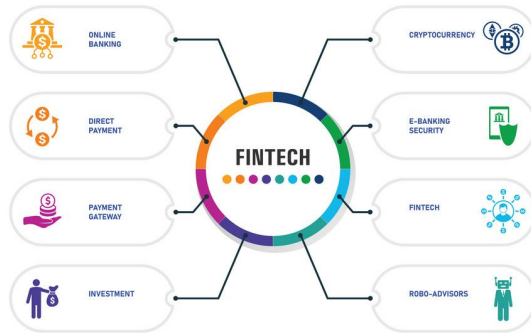
 Meta

amazon *Prime*

NETFLIX



Finance / Fintech



VectorStock®

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Data Security

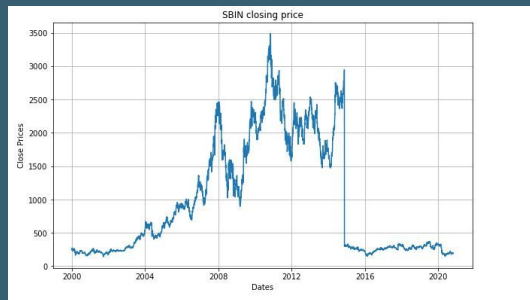
- Sensitive Information
- Transaction data
- Fraud Modelling

Market Analysis

- Time series
- Trend modelling
- Forecasting prices
- Investment firms

Crypto...

- Blockchain tech
- Forecasting





Medical

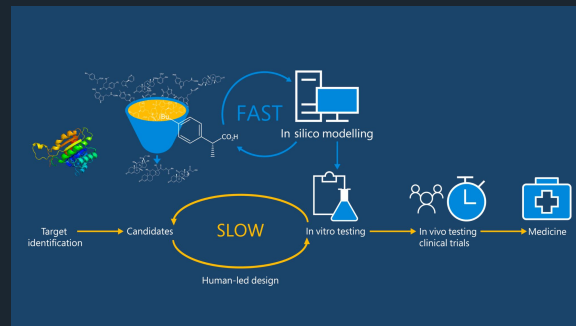
Power Diagnosis tools

- X-ray, CT scans etc...
- Image recognition of disease, condition
- Prior medical history data
- Confidential information
- Preventative care

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Drug Discovery

- Testing and evaluation
- New compound identification
- [Link](#)



Sports

Team Management Decisions

- Player data
- Match stats
- Teams, players, conditions etc..
- Health and injury data
- E-sports
- DRAFT PICKS!
- Betting market

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