Ai in finance

By: Vishwas Narayan



Who am I?

- 1. The best of me is yet to be explored by me itself
- 2. I am a Technician(I dont about the Programing Language)
- 3. Started a boring engineer and ended up as a Full stack Guy(I still don't know which stack i belong)
- 4. I just love problem statement and I am just hacking to solve all the problem statement that I find and I will make the best out of all the things that I can reach out to.
- 5. And a Community Guy.

What we Dwell with is a

Problem statement



What is our biggest disease

Overthinking, Never thinking about bad guys and anything bad that can happen and we overestimate the

Agenda for the Talk

- What is Artificial Intelligence?
- 2. What is Machine learning?
- 3. Types of Machine Learning
- 4. What is data and Information?
- 5. Data Generation Over Globe
- 6. Banking and Finance Industry
- 7. Scope of Al ML in Banking and other financial Sectors
- 8. Project on the Banking and Finance Industry using the AI and ML



What makes you intelligent?

You learn to

- 1. Recognize
- Make mistakes and learn from it
- 3. Make sure that you learn from the learnt aspects(you can relate to some learning)
- 4. You sometimes go by your Gut Feelings
- 5. Create Perspectives and we will learn to work with it.

Ai today is just trying to mimic the senses





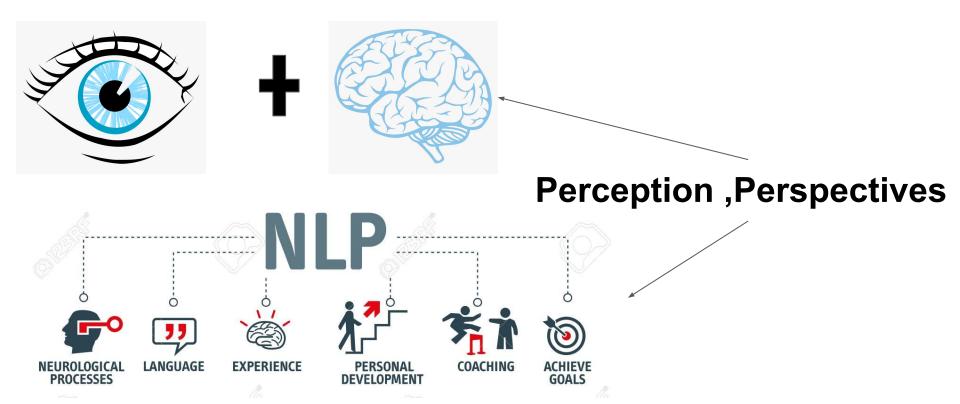


Computer Vision

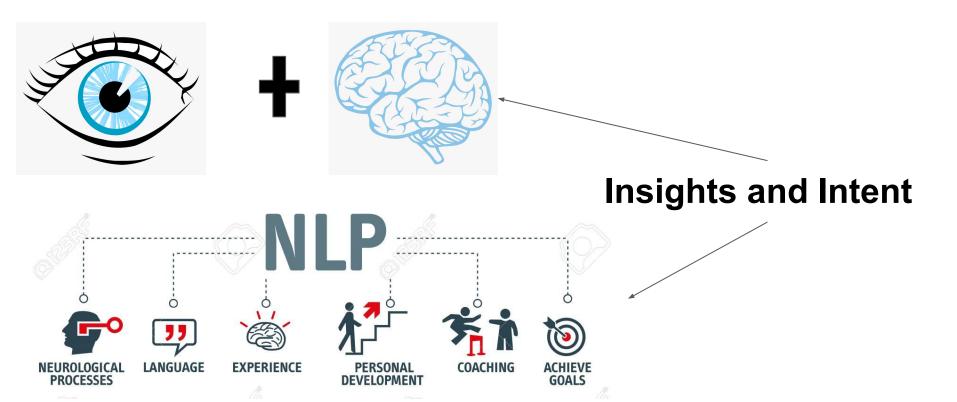


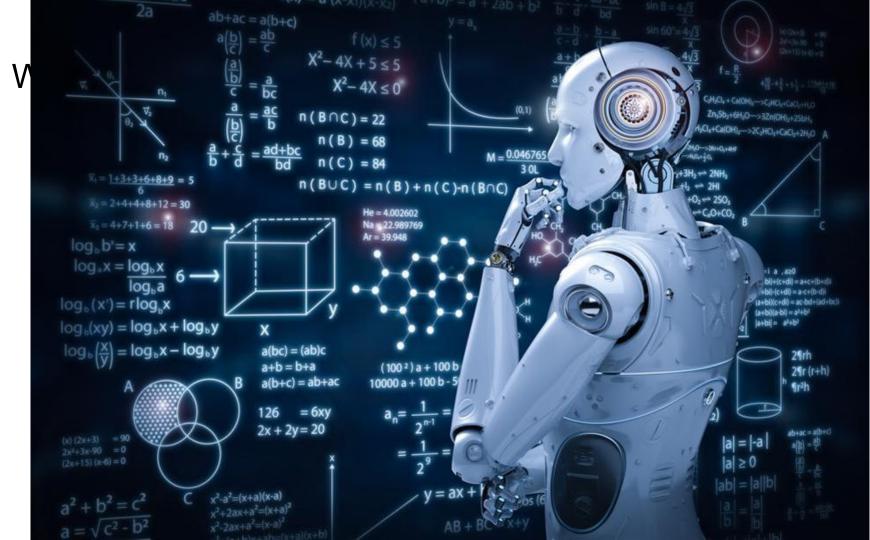
Natural language processing

Ai today is just trying to mimic the senses



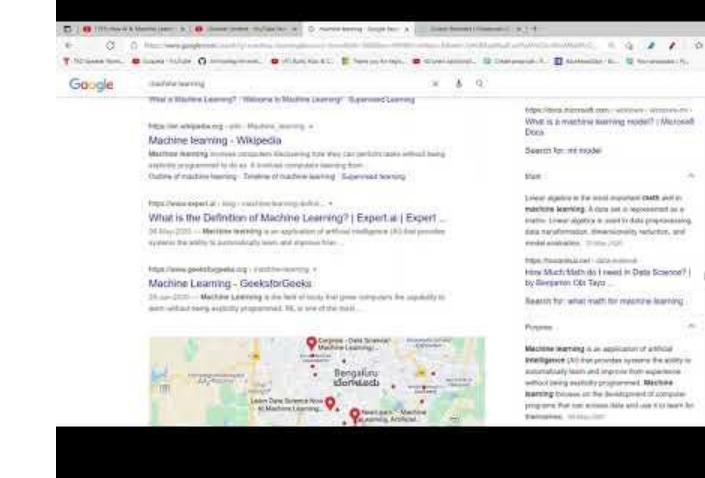
Ai today is just trying to derive





What is Machine Learning?

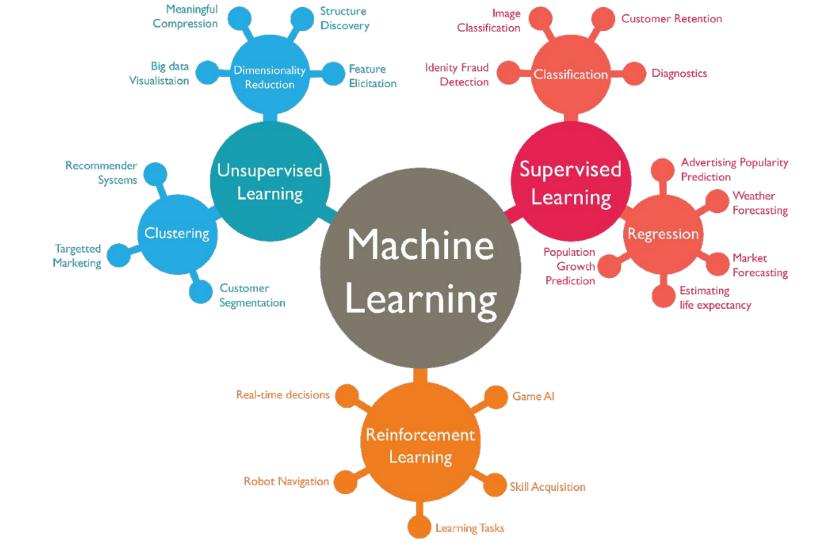
Machine learning is the study of computer algorithms that improve automatically through experience and by the use of data. It is seen as a part of artificial intelligence.



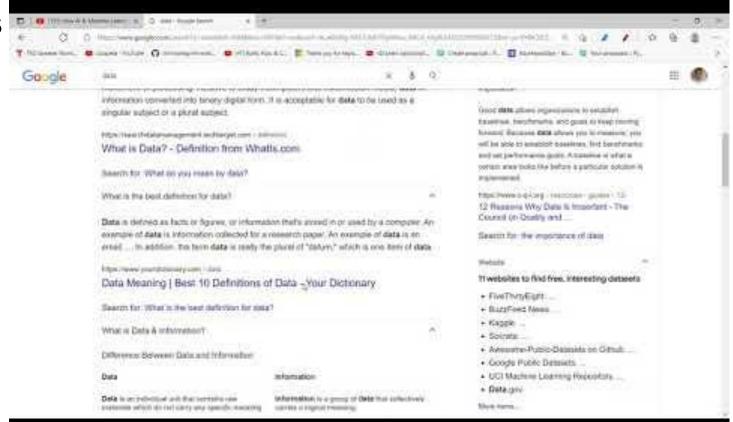
Machine Learning Stereotypes

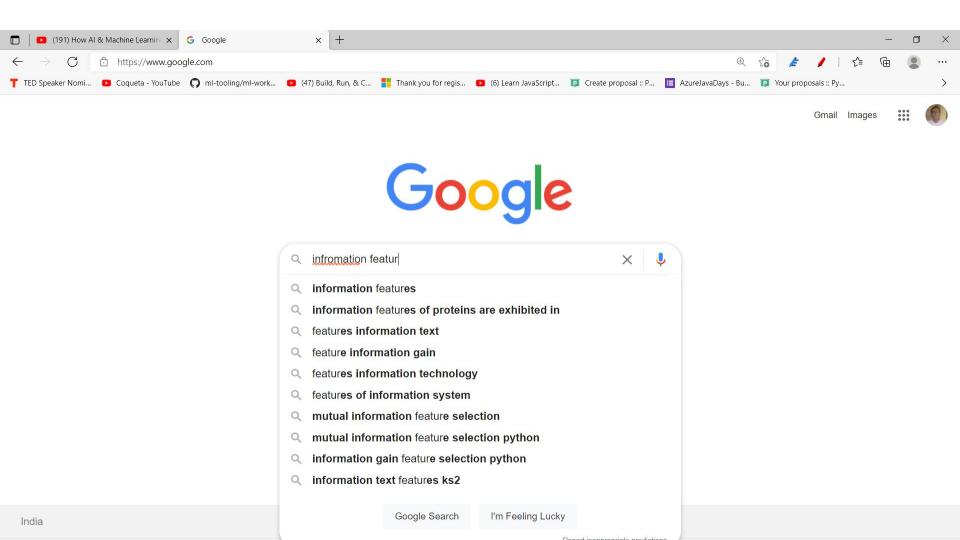
There are many of it

- Un-Supervised
- Supervised
- Reinforcement learning



What is





Data for the Features and Attributes

What is the difference between attributes and features in machine learning?

Attribute/Feature: An attribute is an aspect of an instance (e.g. temperature, humidity).

Attributes are often called features in Machine Learning. A special attribute is the class label that defines the class this instance belongs to (required for supervised learning).

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As nouns the difference between feature and attribute

is that **feature** is (label) one's structure or make-up; form, shape, bodily proportions while **attribute** is a **characteristic** or quality of a thing.

Data Generation

I can only give some data as everything today is more of the Data Generation, as everything is a data today.

Every things is because it is connected.

What is Banking Industry?

What is the banking industry?

Banking is an **industry** that handles cash, credit, and other financial transactions. **Banks** provide a safe place to store extra cash and credit. They offer savings accounts, certificates of deposit, and checking accounts. **Banks** use these deposits to make loans. ... **Banking** is one of the key drivers of the U.S. economy.

https://www.thebalance.com > what-is-banking-3305812 _

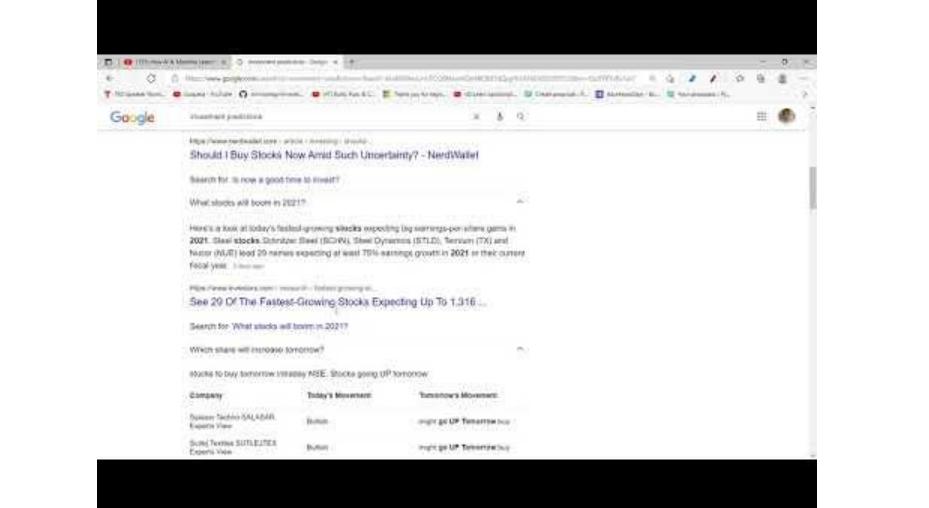
Banking: How It Works, Types, How It's Changed - The Balance

What is Finance Industry?

What type of industry is finance?

The **financial** sector is a section of the economy made up of firms and institutions that provide **financial** services to commercial and retail customers. This sector comprises a broad range of **industries** including banks, investment companies, insurance companies, and real estate firms.





So keep in my you need somebody to guide you

At every time and at any cost - Subject Matter Expert



Fraud Analysis

What skills does a fraud analyst need?

Fraud Analyst Skills and Qualifications

- Attention to detail perceiving small changes and things that "just don't seem right" helps detect fraud.
- Organization skills keeping track of what is going on, handling information from various sources, and following up in a methodical manner stops fraud from progressing.

More items...

Risk Analytics

- Value-at-Risk
- Mark-to-Market
- Counterparty Credit Exposure
- Counterparty Collateral Requirements
- Cost of Credit
- Hedge Effectiveness Test
- Stress Testing
- Anomaly Detection
- Credit Worthiness for the Customer
- Monetizing on risk with Priority

Real Time Analysis

The Real time data acts as an input thus there is no output that will affect us as the outliers will not be in the Scope at all.

- Data is processed in batches and buckets
- We need a minimum latency system
- BIFS is the Key here

Some other projects are

- Risk Assessment
- Fraud Detection And Management
- Financial Advisory Services
- Trading Machine Trading.
- Managing Finance

Game theory

The study of mathematical models of strategic interaction among rational decision-makers is known as game theory. It has applications in logic, systems science, and computer science, as well as all disciplines of social science.

Probability

Probability is a field of mathematics concerned with numerical explanations of the likelihood of an event occurring or the truth of a statement. The probability of an occurrence is a number between 0 and 1, with 0 indicating impossibility and 1 indicating certainty, broadly speaking.

So keep these things in mind Plausibility, Possibility, Probability

Thank you

Now it's time to have some chit chat