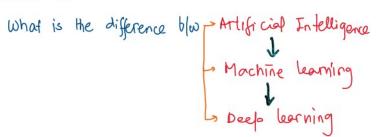
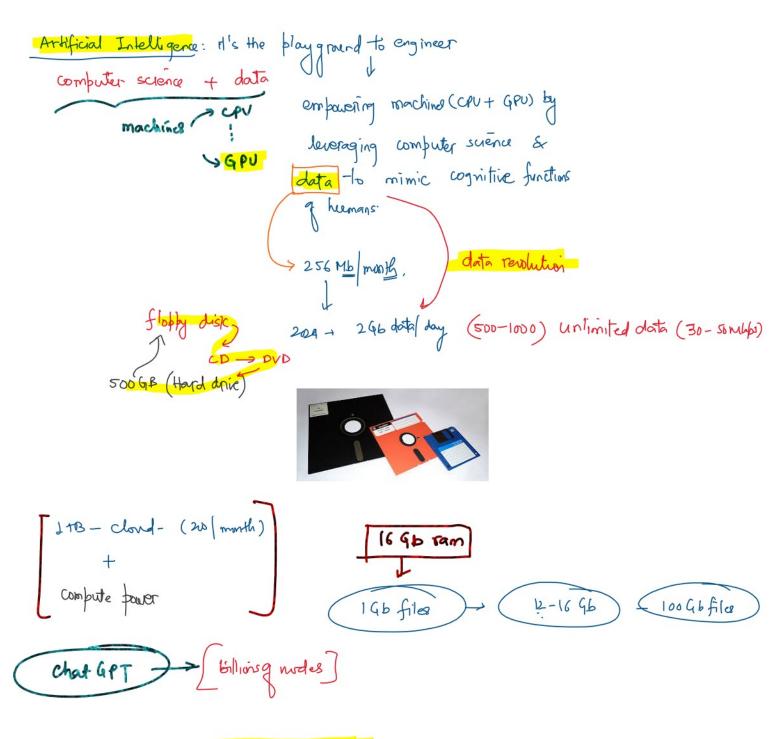
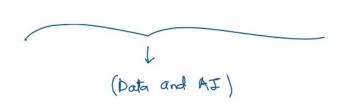
### Module 1 | Introduction to Deep Learning

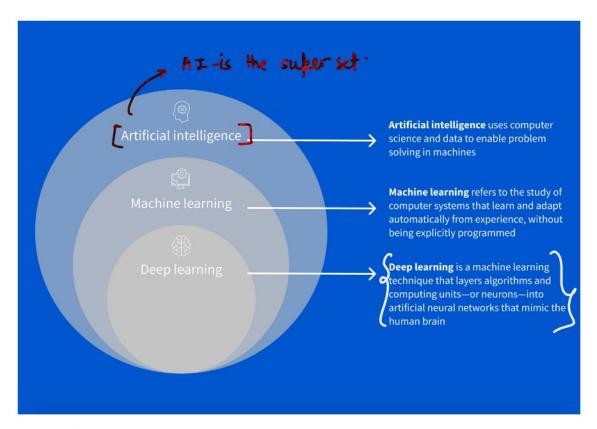
20 July 2024 20:56





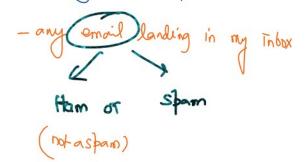
DATA IS THE NEW OIL





What is machine learning and hows it different from software?

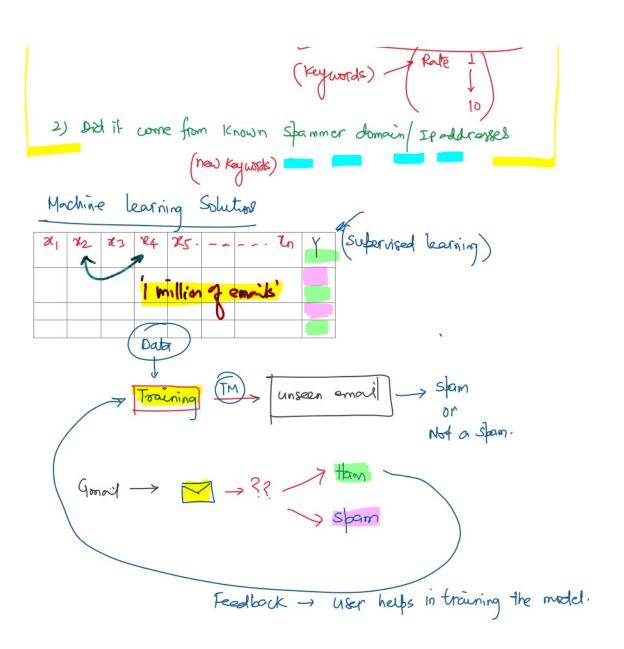
Detecting email spam ??

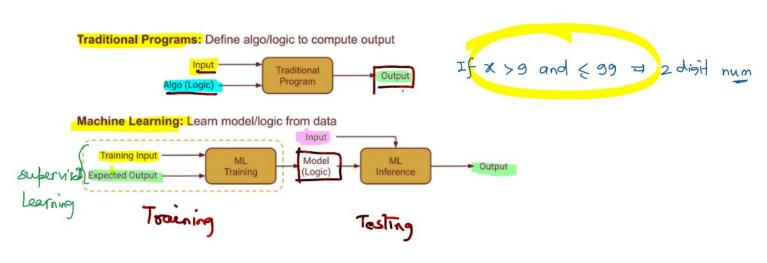


Traditional Software development

1) boes the email contain free, weight loss or lottery, jackfirf.

(Keywords) | Rate 1



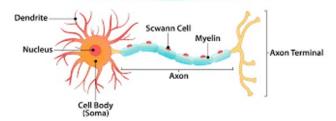


Machine learning is the ability to perform tasks without explicit

Deep learning it is a subset of machine learning which tree to mimic human brain (baskally getting closer to working of human brain but in artificial way)

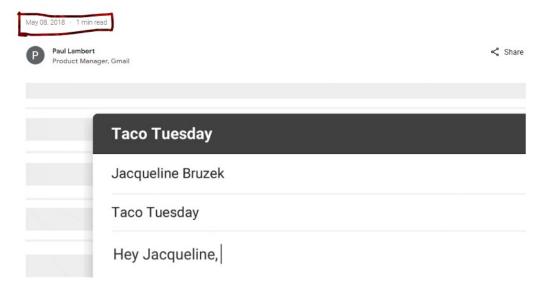
Artificial Neural Network.

### NEURON ANATOMY



# Smart Compose:

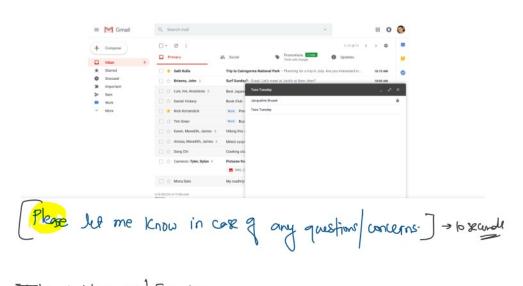
### SUBJECT: Write emails faster with Smart Compose in Gmail

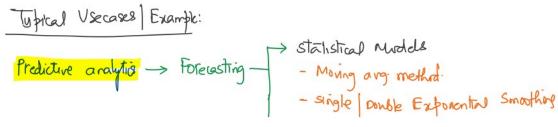


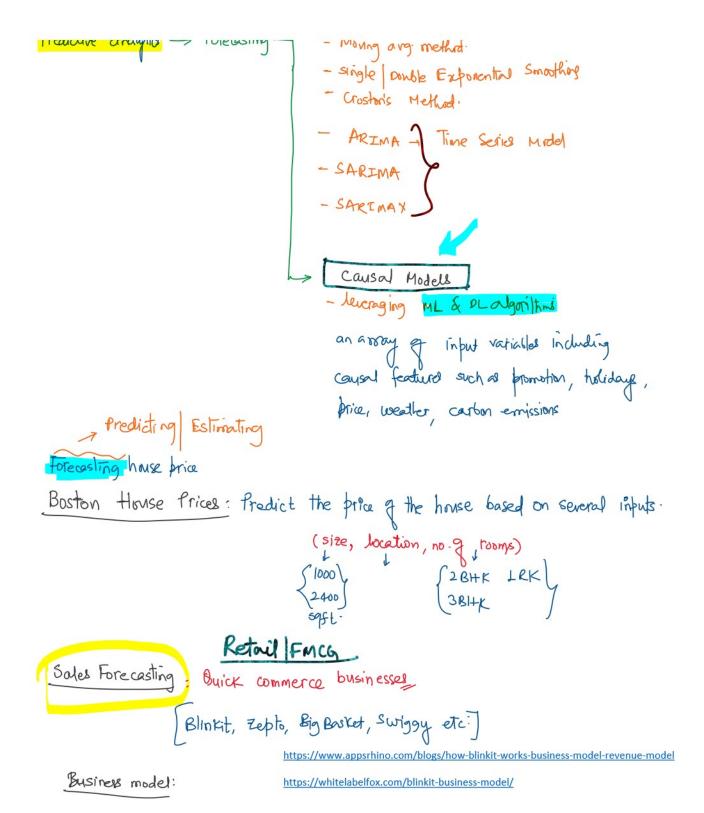
Email makes it easy to share information with just about anyone—friends, colleagues and family—but drafting a message can take some time. Last year, we introduce<mark>d Smart Reply in</mark> Gmail to help you quickly reply to incoming emails. Today, we're announcing Smart Compose, a new feature powered by artificial intelligence, to help you draft emails from scratch, faster.

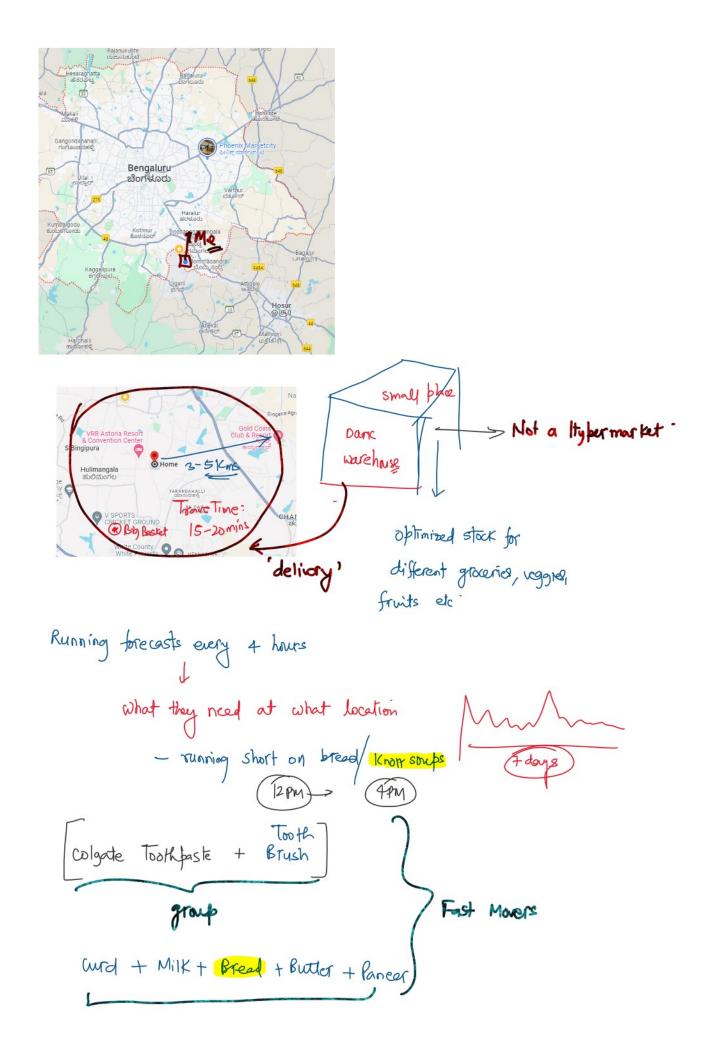
#### Draft emails quickly with confidence

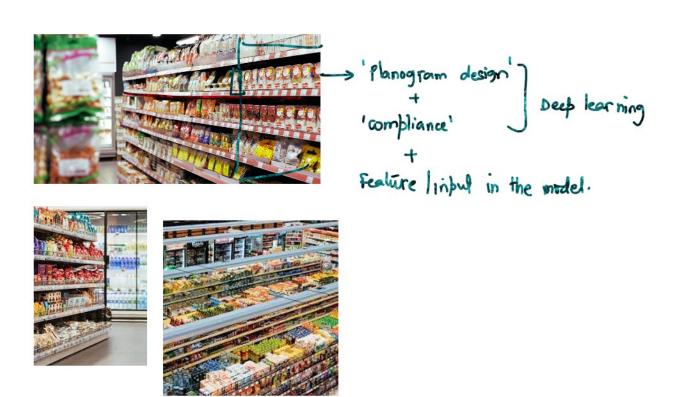
From your greeting to your closing (and common phrases in between), Smart Compose suggests complete sentences in your emails so that you can draft them with ease. Because it operates in the background, you can write an email like you normally would, and Smart Compose will offer suggestions as you type. When you see a suggestion that you like, click the "tab" button to use it.

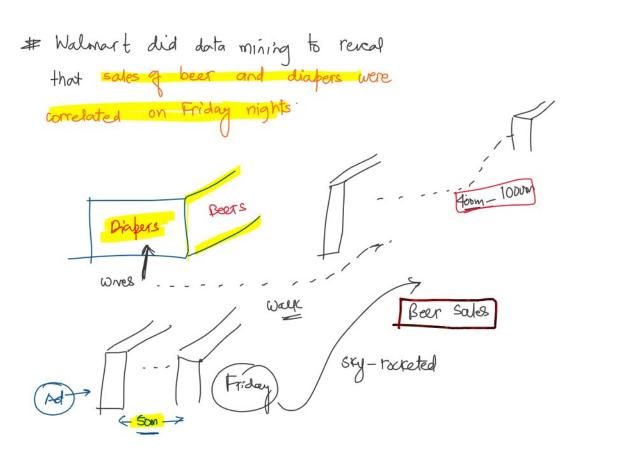








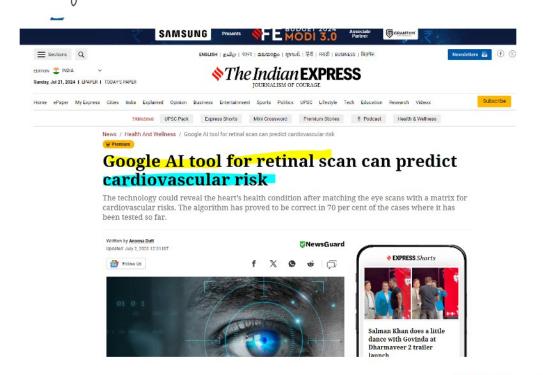




### Planogram

## Google 7/0

Use of AI in medical sciences.





# Developing a diabetic retinopathy screening solution

In research published in JAMA. Google's artificial intelligence accurately interpreted retinal scans to detect diabetic retinopathy. To do this, Google worked with a large team of ophthalmologists who helped us train the Al model by manually reviewing more than 100,000 de-identified retinal scans. This led to a development of an Al-based application called Automated Retinal Disease Assessment. This application can help doctors expand high-quality diabetic retinopathy screening programs in countries without enough eye specialists, such as India and Thailand.

## Supporting 200k+ screenings and counting

Our solution is being used to detect diabetic retinopathy in India and the European Union. With almost 3k new screenings supported by ARDA weekly, we're continuing to expand access to diabetic retinopathy screening at scale. The solution is currently being evaluated in clinical studies in the United States as well as in Thailand. We are working with multiple partners to make this solution available around the world, especially in the areas which have lower access to specialist care.

#### https://health.google/caregivers/arda/

https://www.linkedin.com/pulse/why-should-google-tie-up-aravind-eye-hospital-madurai-jagan-n/

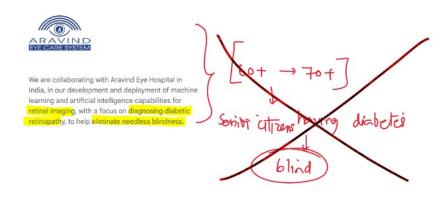
## Why should Google tie-up with Aravind Eye hospital, Madurai?

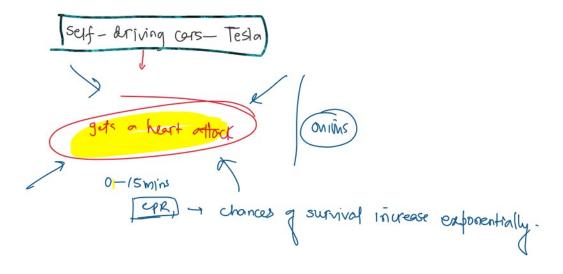


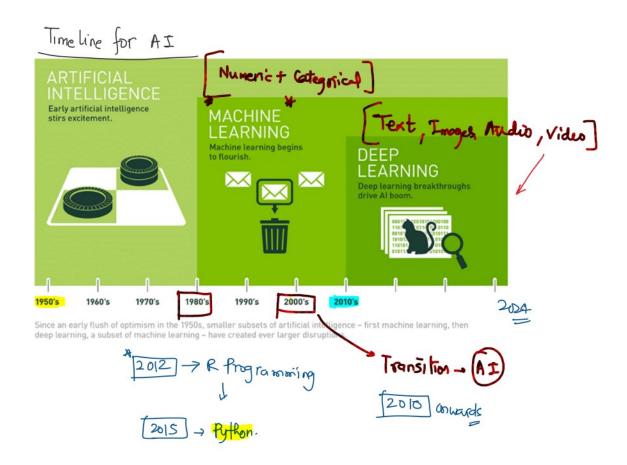
(m) (n)

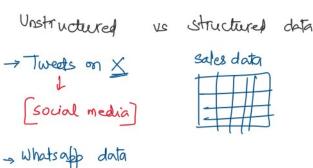
October 15, 2023

In the recent Google I/O, there was an announcement about Google's tie-up with Aravind Eye hospital in Madurai to develop and deploy machine learning and artificial intelligence capabilities to help eliminate needless blindness.









> log files (in general)

- Python errors.

Structured data: is highly organized and easily accessible within database.

- it follows certain schema (stringent) and typically stored in tabular formats (rows of columns)

spreadsheet

SOL: structured Shopy Language.

## Unstructured data: - it doesn't have bre-defined schema or any organized format - no fixed schema.

- it can come in various formats such as text, images, audies and videos files.
- Traditional SOL queries are not suitable
- Mongo DB, Cassandra # Nosor databases are used to Store unstructured data