

# Deep Learning Use-cases

23 November 2024 20:33

23 November 2024

20:12

## Google Drive Link:

To access all the materials & resources in one place

✓ <https://drive.google.com/drive/folders/106JKC7lyYdBt6JQCBSvPC6Ks1c6HRFFx>

## 1. Smart Compose

Gmail integrated Smart Compose in 2018.

GMAIL

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

2018

May 08, 2018 · 1 min read



Paul Lambert  
Product Manager, Gmail

Share

### Taco Tuesday

Jacqueline Bruzek

Taco Tuesday

Hey Jacqueline,

Please let me know in case of any questions/clarifications

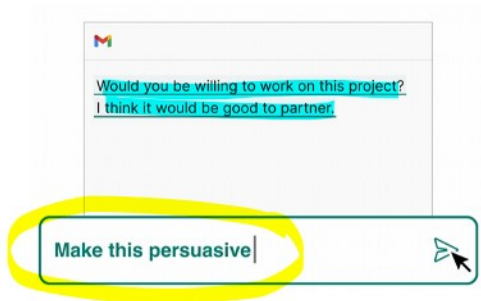
## 2. Grammarly <https://www.grammarly.com/>

# Responsible AI that ensures your writing and reputation shine

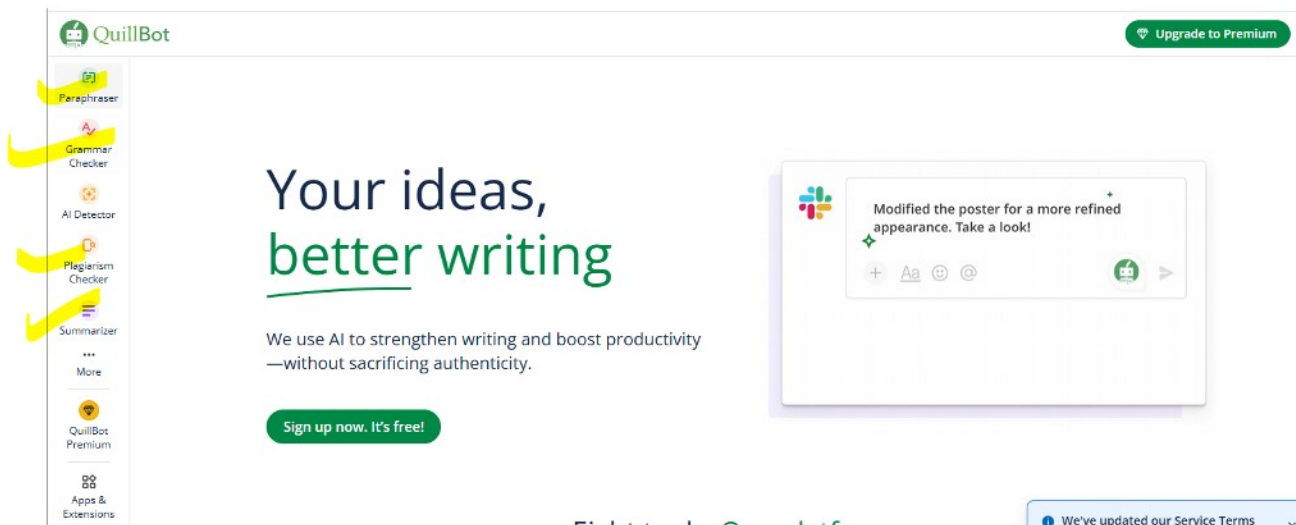
Work with an AI writing partner that helps you find the **words** you need—to write that **tricky email**, to get your point across, to keep your work moving.

Sign up. It's free →

 Sign up with Google



### 3. QuillBot - <https://quillbot.com/>



QuillBot empowers writers at...



\* No trading tips given

**D Mart**  
Daily Savings Daily Discounts

every day → Sales Analysis

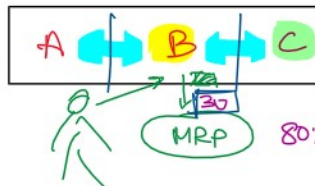


### Planogram Design:

Display design as per product and customer strategies

some part of planogram design would be changing day of the week.

Products



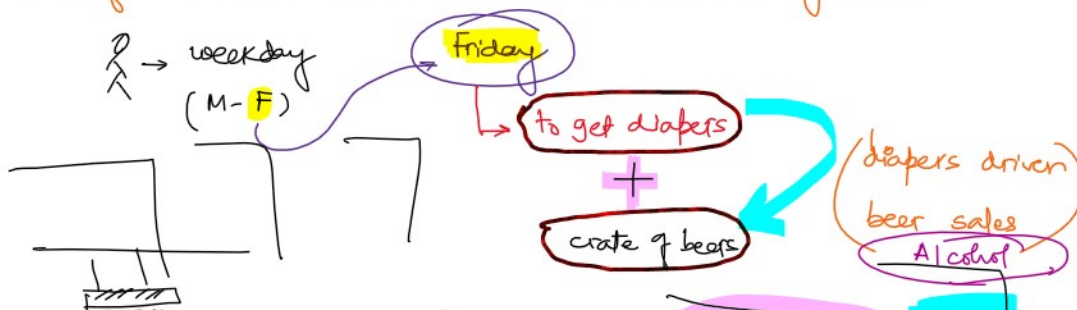
80% of consumers picked product #B

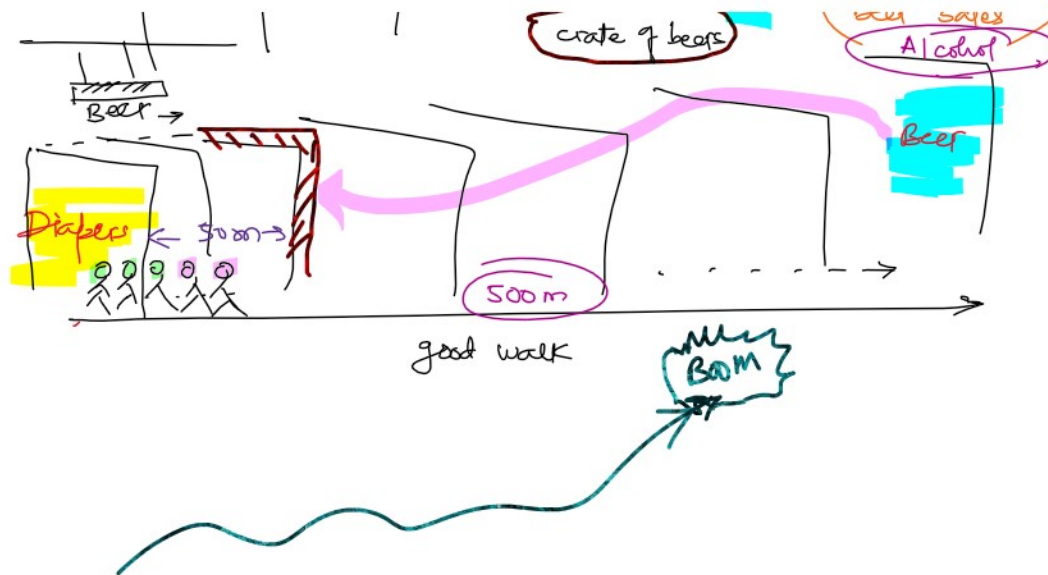
50% of consumers ended up buying product #C.

- \* Price
- \* Packaging
- \* Expiry date
- \* Ingredients

### # Walmart: diapers-beer use-case

Walmart did data mining to reveal that "sales of beer and diapers were correlated on Friday nights"





[Link for walmart Vse-case]

<https://canworksmart.com/diapers-beer-retail-predictive-analytics/>  
<https://theweek.com/articles/461001/7-tricks-walmart-using-make-buy-more-beer>

Asian Paints: India's biggest and one of the companies which  
 (paint Co.)  
 adopted data science long back.



RGB } 20-50 variants  
 CMYK }

(Paints buckets)

(10x10 sq. feet) Zip code #560000

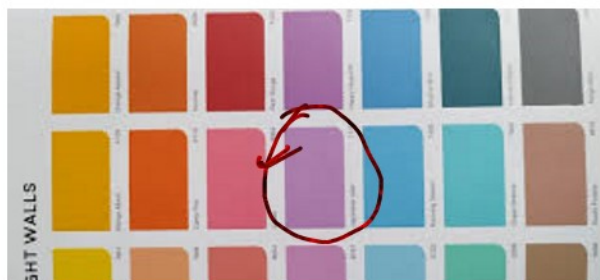
Asian area manager

Retailers < 12 hours (3 times a day)  
 AI based model

Retailer ID: 

1	2	3	4
5	6	7	8

<https://yourstory.com/2023/08/asian-paints-data-science-revolution>







[How to mix Colour Asian Paint colour tinting machine](#)



For any given location (at a zipcode level), on any day  
Asian Paints accurately forecasts the demand of the base paints

<https://d3.harvard.edu/platform-digit/submission/asian-paints-indias-biggest-data-science-company-that-sells-paint/>

**Disclaimer:** Not a trading tip

Asian Paints Ltd  
NSE: ASIANPAINT

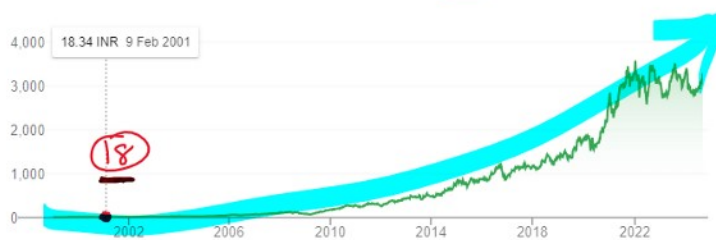
Market Summary > Asian Paints Ltd

3,266.50 INR

+3,254.62 (27,395.79%) ↑ all time

6 Sept, 3:30 pm IST • Disclaimer

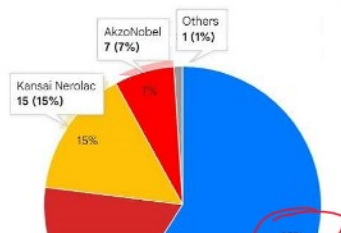
1D 5D 1M 6M YTD 1Y 5Y Max

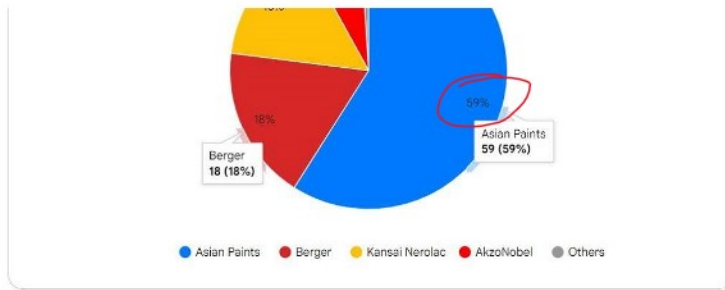


Open	3,238.00	Mkt cap	3.14LCr	QDP score	A-
High	3,285.90	P/E ratio	61.66	52-wk high	3,422.95
Low	3,225.35	Div yield	1.02%	52-wk low	2,670.10

Market Share of Paint Brands in India

2024



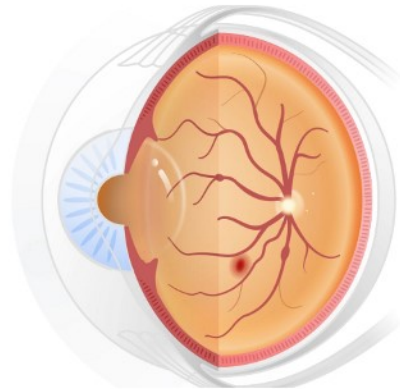


Google story: AI applications being worked upon in healthcare, pharma and livesciences

① Diabetes leads to blindness

Using AI to help doctors address eye disease

**ARDA** — **Automated Retinal Disease Assessment (ARDA)** is being used to help clinicians **detect diabetic retinopathy**, a leading cause of blindness, in India and across the world. With widespread adoption, perhaps millions of patients with diabetes could keep their vision in part to ARDA assisting doctors. Our research was published in *JAMA* and *Ophthalmology*. Additional research, published in *Lancet Digital Health*, showed that we can predict whether patients will develop diabetic retinopathy in the future, which can help doctors customize both treatment and eye screening frequencies for their patients. The solution is currently being evaluated in clinical studies in the United States as well as in Thailand. [Learn more.](#)



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



**Jagan N**  
Learn → Teach → Grow



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.



We are collaborating with Aravind Eye Hospital in India, in our development and deployment of machine learning and artificial intelligence capabilities for retinal imaging, with a focus on diagnosing diabetic retinopathy, to help eliminate needless blindness.

Neuralink  
— AI chip

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## Using AI to improve lung cancer detection

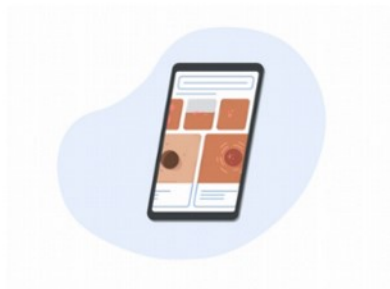


### A promising step forward for predicting lung cancer

Lung cancer leads to over 1.8 million deaths per year world wide, accounting for almost one in five cancer deaths, and is the largest cause of cancer mortality. Our research, published in [Nature Medicine](#), shows that deep learning may eventually help physicians more accurately screen for lung cancer and identify the disease even in incidental lung cancer detection workflows. [Read the post](#)

→ ChatGPT → upload a CT scan  
↓  
during covid  
(18)  
gsf-  
accuracy  
↓  
(someone is at risk of lung cancer)

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This product has been CE marked as a Class I medical device in the EU. It is not available in the United States. This research is not related to the DermAssist tool, which is no longer in development.

### Improving access to skin disease information

Through computer vision AI and image search capabilities, we are developing a tool to help individuals better research & identify their skin, hair, and nail conditions. The tool supports hundreds of conditions, including more than 80% of the conditions seen in clinics and more than 90% of the most commonly searched conditions. The work was highlighted in both [Nature Medicine](#) and [JAMA Network Open](#). [Learn more](#)

News / Health And Wellness / Google AI tool for retinal scan can predict cardiovascular risk

Premium

## Google AI tool for retinal scan can predict cardiovascular risk

The technology could reveal the heart's health condition after matching the eye scans with a matrix for cardiovascular risks. The algorithm has proved to be correct in 70 per cent of the cases where it has been tested so far.

Written by Ananya Dutt  
Updated: July 2, 2023 12:31 IST

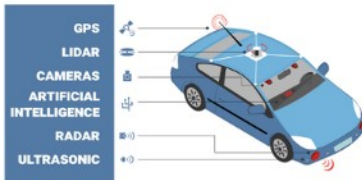
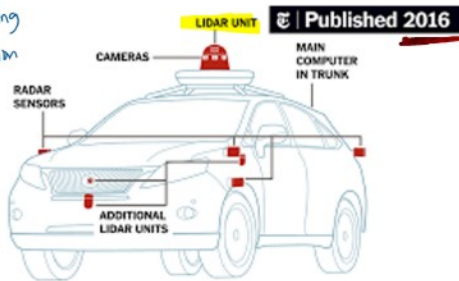
NewsGuard

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self-driving/Lane Assist

deep learning  
computer vision



ADAS



<https://www.usatoday.com/story/tech/2013/12/01/amazon-bezos-drone-delivery/3799021/>

Guys, start from here

Walmart Sales Forecasting



## Walmart Sales Forecast

Walmart Sales Forecasting A CRISP-DM Model



Data Card Code (59) Discussion (5) Suggestions (0)

→ Good ground for doing data-science.

### About Dataset

#### Walmart Sales Forecast



View more

#### Usability

10.00

#### License

Data Files © Original Authors

#### Expected update frequency

Daily

#### Tags

Business News  
Investing  
Retail and Shopping  
Exploratory Data Analysis  
Deep Learning  
Time Series Analysis  
Python

## Time line for AI

