



DS - Group 1 - Python Project : **Signal Alert for Stocks**

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Chanan

Goal :

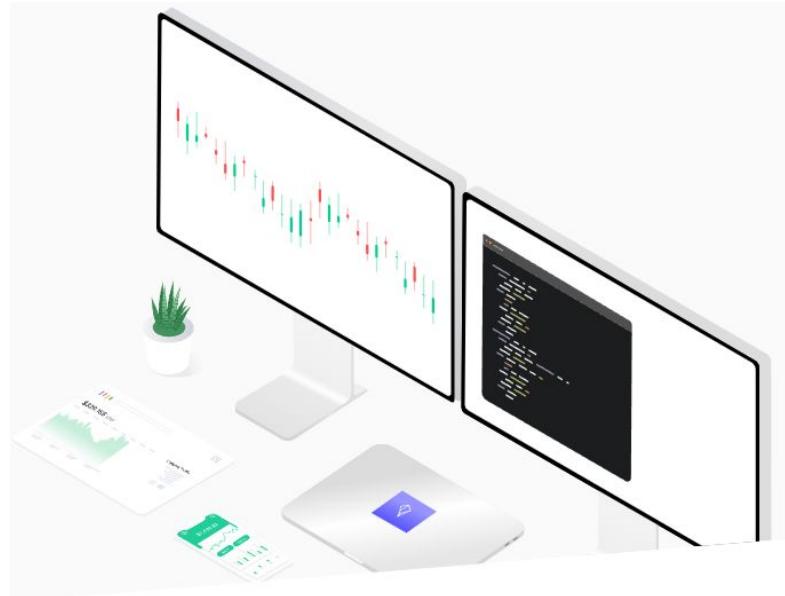
Give our subscribers the most
accurate and relevant signals for
their Network's stocks





System requirements are split into 4 parts:

1. Registration to the program
2. API to one of the known/trusted stocks data brands.
3. Algorithm for creating candidates of signals to be sent
4. API to Gmail for sending alerts



01

Signal 1 - Send Emails Alerts

The screenshot shows an email interface with a red header bar at the top. Below it, a message is displayed with the following details:

Stock Alert Inbox x

ds@ezevin.com
to me ▾

the Following stock was change :

Stock : 'MSFT'

Old Price : '329.01'

New Price : '316.38'

change value: '-0.03838789094556394'

date : '2022-01-05 07:00'

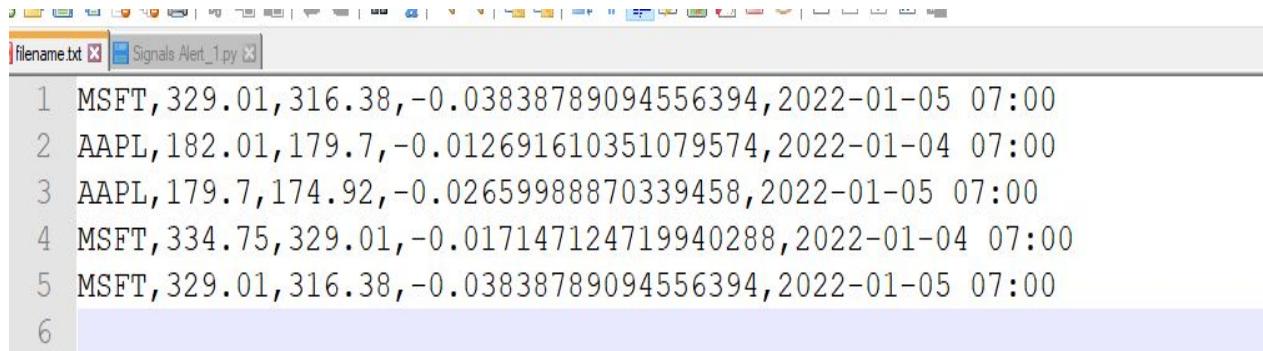
At the bottom right, there is a cursor icon pointing towards the text.

Reply Forward



Signal 2 - Writing into file

A picture
always
reinforces the
concept



```
filename.txt Signals_Alert_1.py
1 MSFT,329.01,316.38,-0.03838789094556394,2022-01-05 07:00
2 AAPL,182.01,179.7,-0.012691610351079574,2022-01-04 07:00
3 AAPL,179.7,174.92,-0.02659988870339458,2022-01-05 07:00
4 MSFT,334.75,329.01,-0.017147124719940288,2022-01-04 07:00
5 MSFT,329.01,316.38,-0.03838789094556394,2022-01-05 07:00
6
```

04

Using of:

1.Function

2.Write to files

```
54  
55     my_file_path = r"C:\Users\User\Desktop\Python_Test\filename.txt"  
56  
57     def write_row(  my_file_path,  
58                         Stock,  
59                         Old_Price,  
60                         New_Price,  
61                         change,  
62                         date):  
63         with open(my_file_path, 'a') as f:  
64             c = Stock + ',' + str(Old_Price) + ',' + str(New_Price) + ',' + str(change) + ',' + date  
65             f.write(c)  
66             f.write('\n')  
67  
68     ######  
69  
70 #####
```

Storing Stock prices into dictionary

```
1-0
2
3     for result in resp.results:
4         dt = ts_to_datetime(result["t"])
5         #print(f'{dt}\n\tO: {result['o']}\n\tH: {result['h']}\n\tL: {result['l']}\n\tC: {result['c']} ')
6         aapl_dict[dt] = result['c']
7
8     stocks_dict[resp.ticker] = aapl_dict
9
10    for result in resp2.results:
11        dt = ts_to_datetime(result["t"])
12        #print(f'{dt}\n\tO: {result['o']}\n\tH: {result['h']}\n\tL: {result['l']}\n\tC: {result['c']} ')
13        msft_dict[dt] = result['c']
14    stocks_dict[resp2.ticker] = msft_dict
15
16    #print(main_dict1)
```



List Comprehension

```
# --- price --- stocks_dict = {  
#     'A': 100,  
#     'B': 200,  
#     'C': 300,  
#     'D': 400  
# }  
  
#####  
## get first price for each stock  
#####  
if old_stock != stock:  
    ##print ('---1 > ', old_stock, stock)  
    old_stock = stock  
#####  
# List Comprehension  
# get first price for each stock  
#####  
list1 = [(k) for k in stocks_dict.values()]  
list2 = [(k) for k in list1[i].values()]  
new_price = (list2[0])  
i+=1  
#####  
#print('--- > ', new_price)  
#####
```



List Comprehension

Do you know what helps you make your point clear? Lists like this one:

- They're simple
- You can organize your ideas clearly
- You'll never forget to buy milk!

And the most important thing: the audience won't miss the point of your presentation



Our history

1990

Saturn

Saturn is the ringed one and a gas giant

1998

Mars

Despite being red, Mars is a very cold place

And still going strong!

1992

Mercury

It's the closest planet to the Sun and the smallest

2015

Venus

Venus has a beautiful name, but it's hot



Our philosophy



Mission

It's the closest planet to the Sun and the smallest in the Solar System



Vision

Venus has a beautiful name and is the second planet from the Sun



Values

Despite being red, Mars is a very cold place full of iron oxide dust



“This is a quote, words full of wisdom that someone important said and can make the reader get inspired.”

—SOMEONE FAMOUS



Our team

John James



You can replace the image on the screen with your own

George Medina



You can replace the image on the screen with your own

Jane Patterson



You can replace the image on the screen with your own



Locations

| 1992

Saturn

Saturn is the ringed
one and a gas giant

| 1999

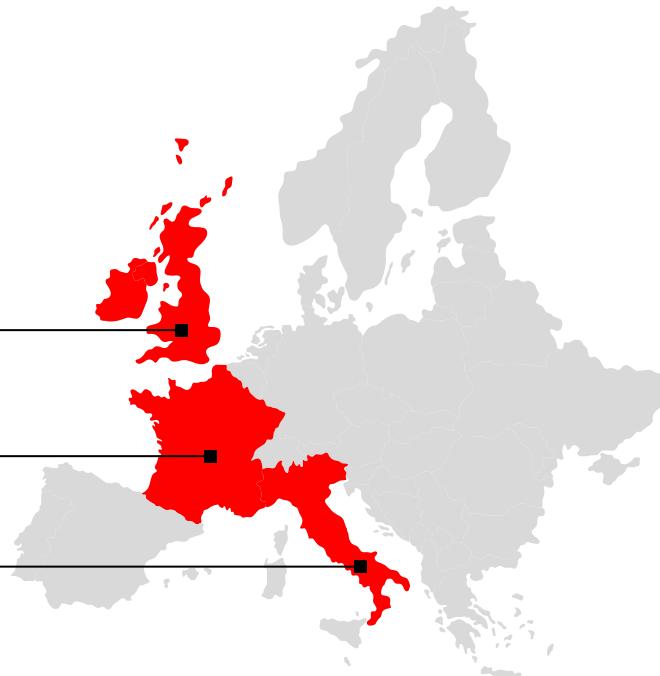
Mars

Mars is actually a
very cold place

| 2016

Neptune

Neptune is the
farthest planet





Our strengths



Efficiency

Mercury is the closest planet to the Sun and the smallest in the Solar System



Reliability

Venus has a beautiful planet name and is the second planet from the Sun



Commitment

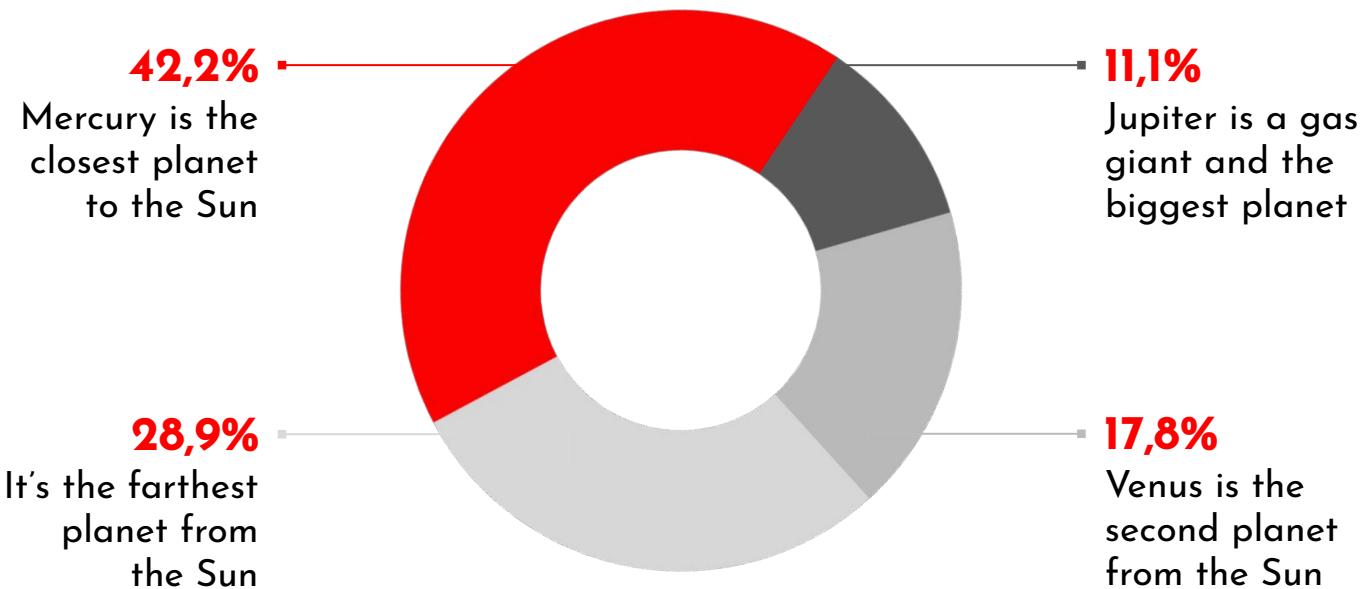
Despite being red, Mars is a very cold place. It's full of iron oxide dust



— Awesome words



Our numbers



To modify this graph, click on it, follow the link, change the data and paste the new graph here, replacing this one



Our numbers

50,000

You can enter a subtitle

40,000

You can enter a subtitle

30,000

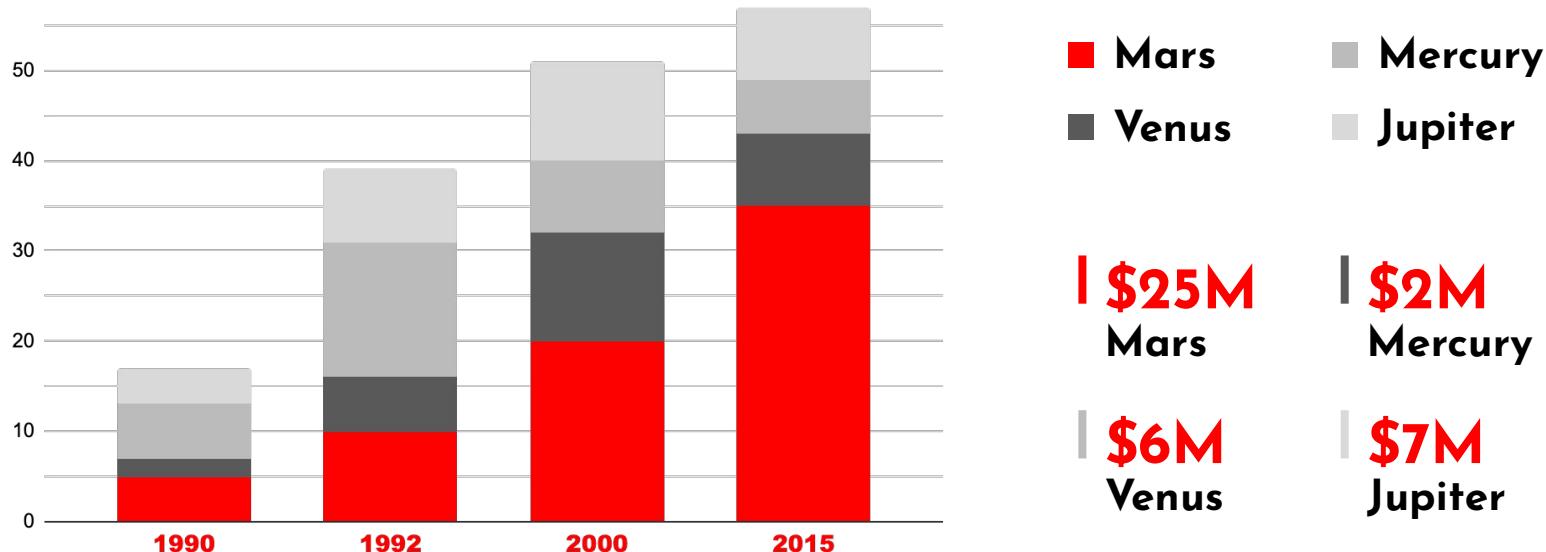
You can enter a subtitle

20,000

You can enter a subtitle



Our growth







The slide title goes here!



You can give a brief description of the topic you want to talk about here. For example, if you want to talk about Mercury, you can say that it's the smallest planet in the entire Solar System



Our services



Mercury

It's the closest planet to the Sun and the smallest in the Solar System



Venus

Venus has a beautiful name and is the second planet from the Sun



Best sellers

100

Venus has a beautiful name

—

50

Mars is actually a very cold place

—

30

Saturn is the ringed one and a gas giant



Maybe you need four columns

Mercury

It's the closest planet to the Sun

Venus

Venus has a beautiful name but it's terribly hot

Mars

Despite being red, Mars is actually a cold place

Jupiter

It's the biggest planet in the Solar System



03

Our projects

You can enter a subtitle here if you need it





A picture
is worth a
thousand
words



Our projects

Mercury

It's the closest planet to the Sun

Venus

Venus has a beautiful name, but it's terribly hot

Mars

Despite being red, Mars is actually a cold place

Jupiter

It's the biggest planet in the Solar System

Saturn

Saturn is the ringed one and a gas giant

Neptune

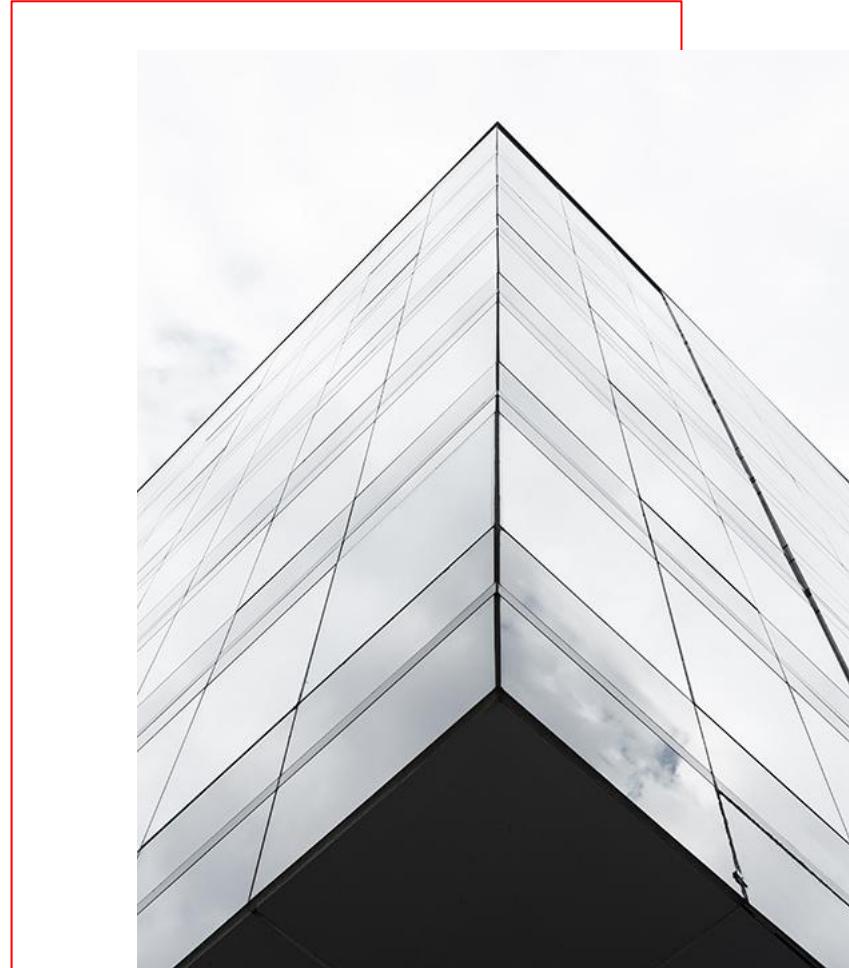
Neptune is the farthest planet from the Sun



Project 1

You can replace the image with your own work.

It's terribly hot—even hotter than Mercury—and its atmosphere is extremely poisonous. It's the second-brightest natural object in the night sky after the Moon





Our latest project

Venus

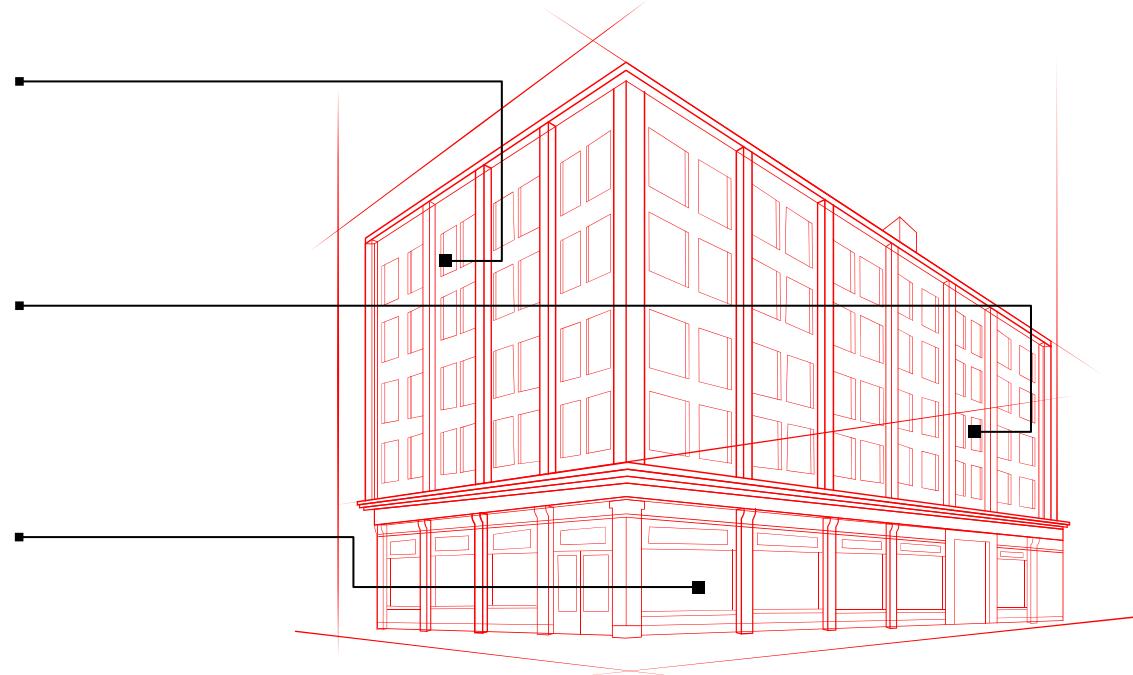
Venus has a beautiful name

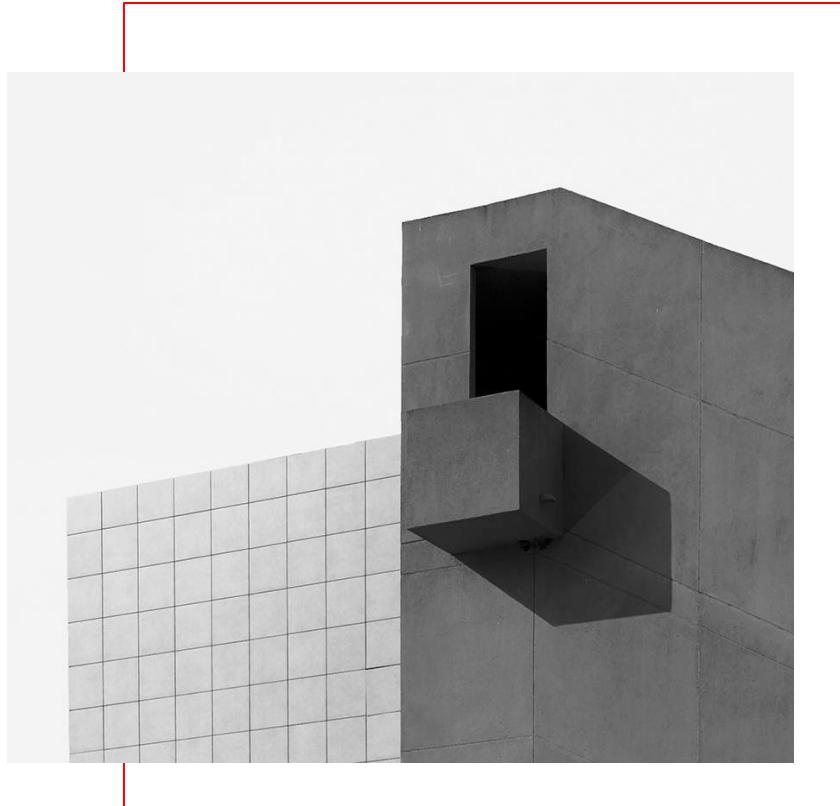
Mars

Mars is red and very cold

Mercury

Mercury is the smallest planet





03

Our projects



Project 2

You can replace the image
with your own work

It's only a bit larger than the Moon.
The planet's name has nothing to
do with the liquid metal, since it
was named after the Roman
messenger god, Mercury



Future projects

Saturn

Saturn is the ringed one and a gas giant

Mars

Despite being red, Mars is a cold place

Venus

Venus is the second planet from the Sun

Jupiter

It's the biggest planet in the Solar System



04

Our clients

You can enter a subtitle here if you need it



4,498,300,00

Big numbers catch your audience's attention



Customer profile

Gender



Age

21-50



51-60



Educational level

Associate Degree



Master's Degree



Bachelor's Degree



Doctoral Degree





Customer testimonials

"Mars is actually a very cold place. It's full of iron oxide dust, giving the planet its red cast"

"Mercury is the closest planet to the Sun and the smallest one in the Solar System"

"Venus has a beautiful name, but also a poisonous atmosphere"

John Doe

Helena
Patterson

Jena Doe



Awards

2001

2012

2018

Mercury



First prize

Mars



First prize

Saturn



Second prize



Desktop software



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Mobile web

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Tablet app



You can replace the image on the screen with your own work. Just delete this one, add yours and center it properly

Thanks!

Do you have any questions?

youremail@freepik.com

+91 620 421 838

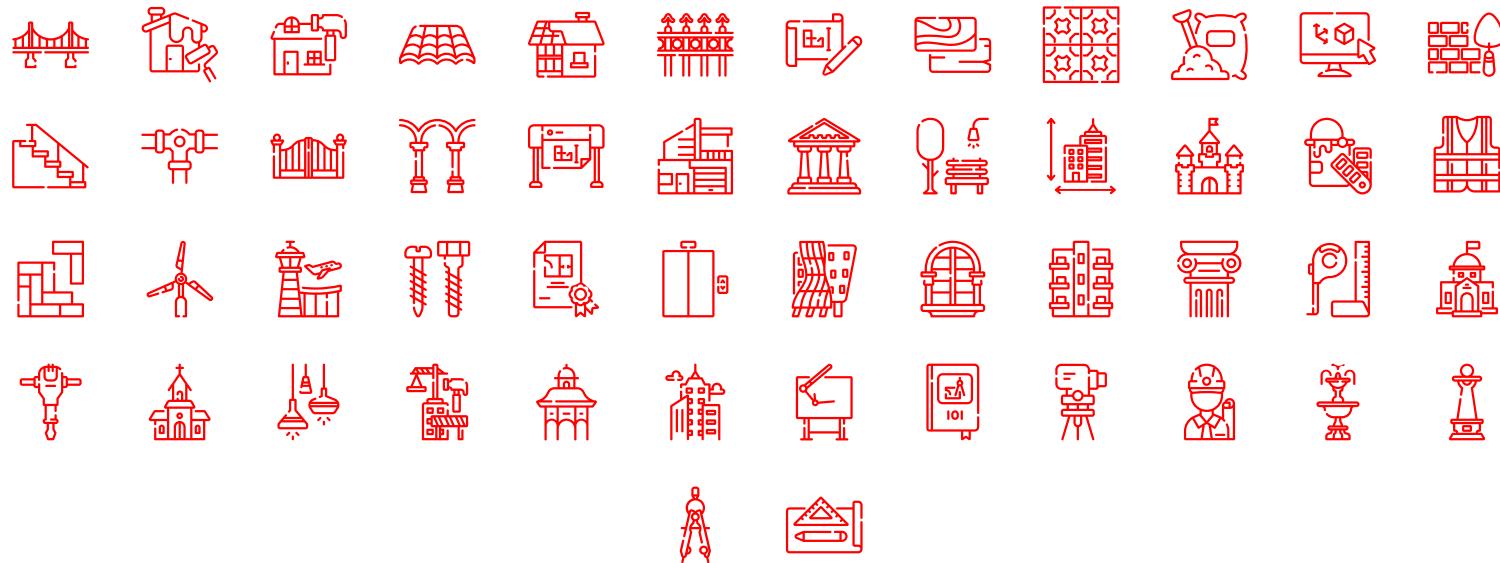
yourcompany.com

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- Close-up modern architecture office buildings
- Copy space white outdoors old wall
- Metal steel wall with holes
- Front view of simple concrete structure in the city
- Front view of plain concrete structure in the city
- Low angle of plain concrete structure in the city with copy space
- Concrete structure in the city with copy space

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- Low view modern skyscrapers office buildings
- Close-up of marble textured background
- Abstract city wall
- Architect doing a new project
- Portrait of young male architect in office
- Female architect with helmet and level
- Minimalist structure in the city
- Grey lime plaster with cracks background
- City building

- Close-up of old black and white cracked textured wall
- Bottom view modern glass buildings
- Close-up view modern skyscrapers office buildings
- Minimalistic apartment building in the city
- Background wall concept with copy space

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- Pack Architecture 22

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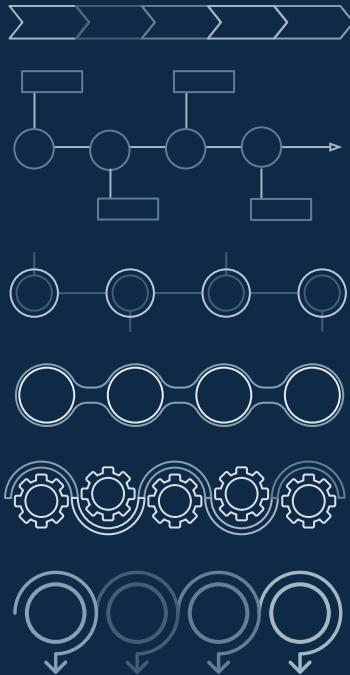
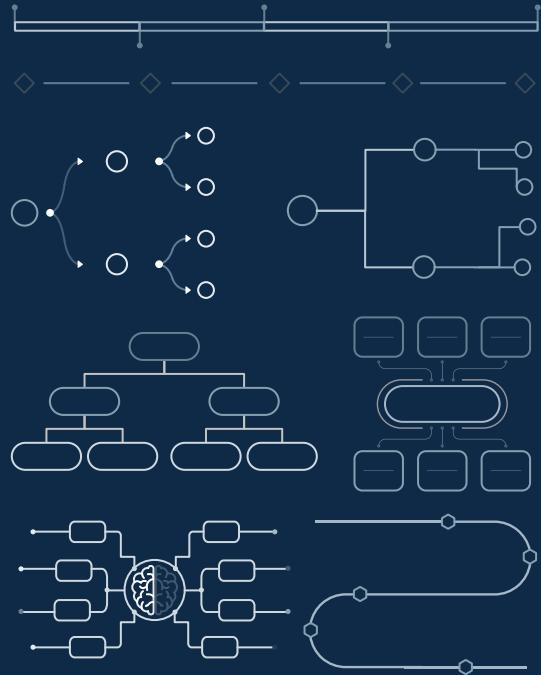
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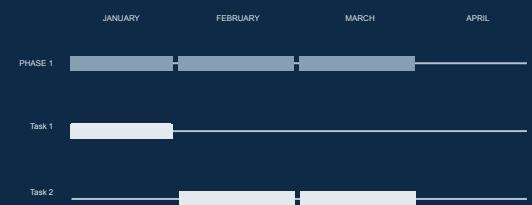
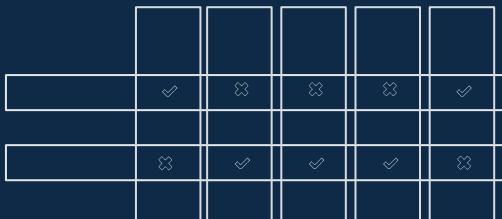
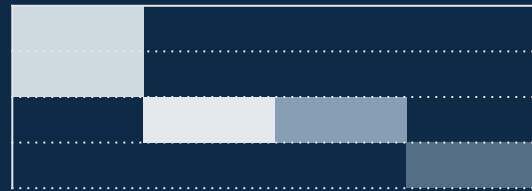
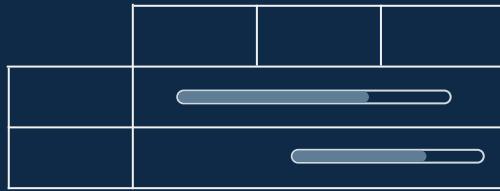
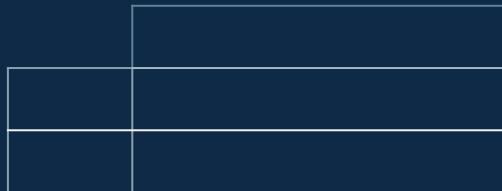
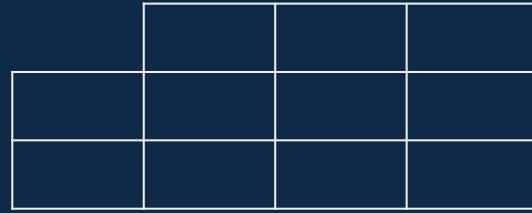
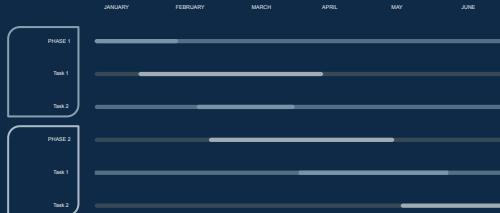
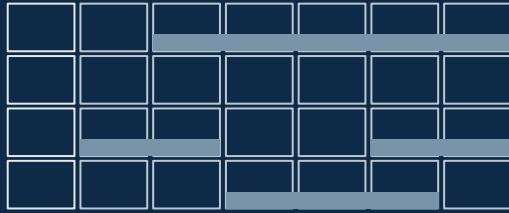
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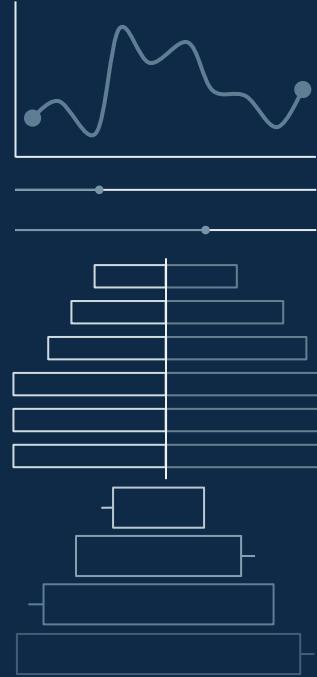
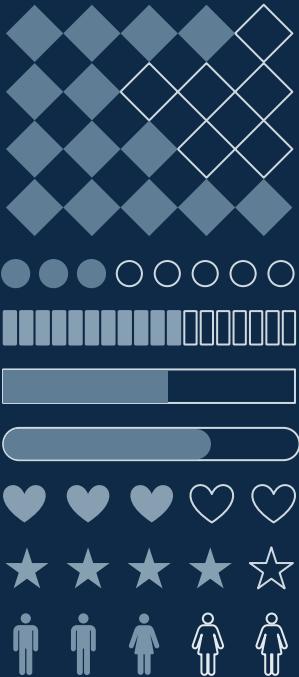
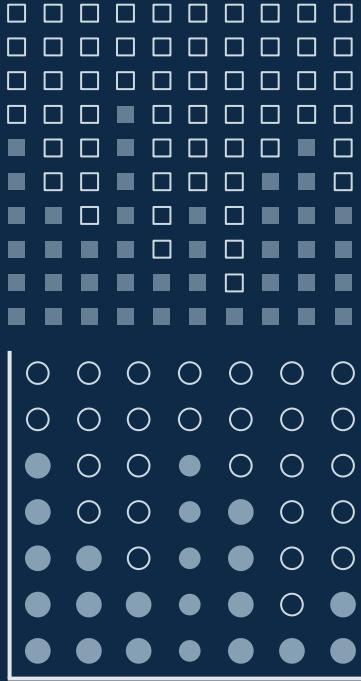












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