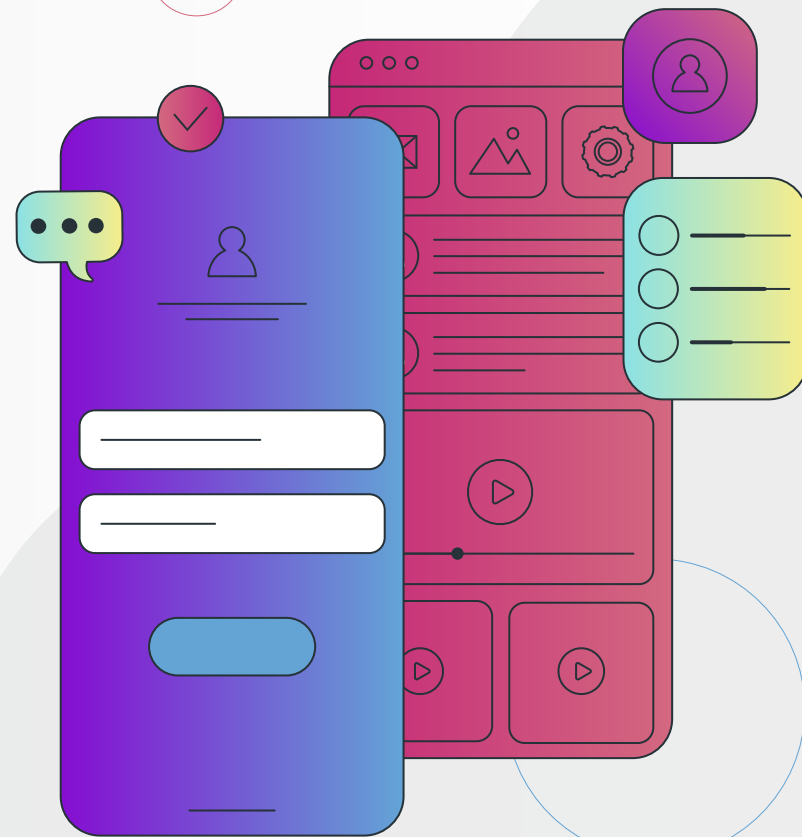



Technocrats presents

#ML01

Covine

Ashiqa Rahman
Anshuman Mishra





Two years ago .. we participated in
Open Innovation Challenge
and learnt that ...

Love The Problem not Solution

It's Thought Of The Day.

#Technocrats

So what's the plan ?

SHHH !! SPOILERS
Time

Out of the Box
thinking

We are Full Stack
Developer

Gist of Future

AI Magic

Algorithms ka
Tadka

Okay , I love
GRAPHS

#Technocrats

Features



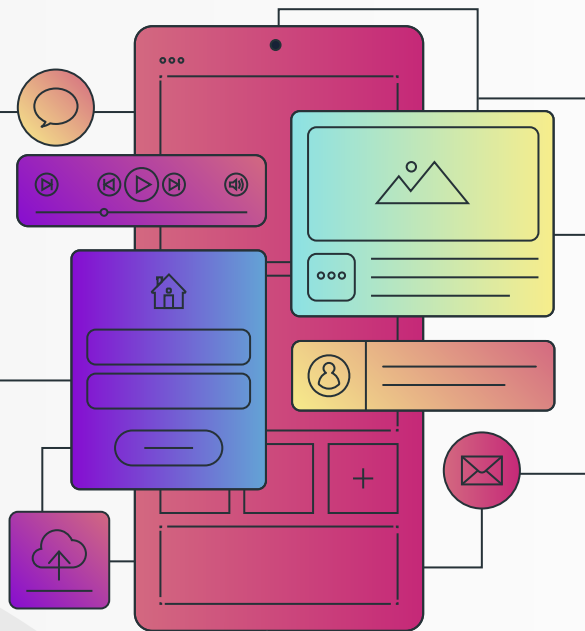
Tracing



Crowd Map

Covid Alert

Chat Bot



#AI Magic

#Technocrats

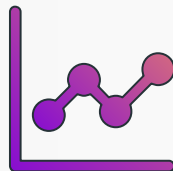


The AI Powered ChatBot



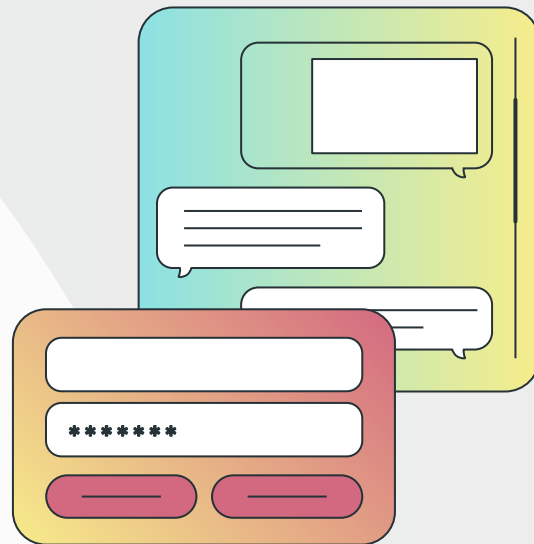
User

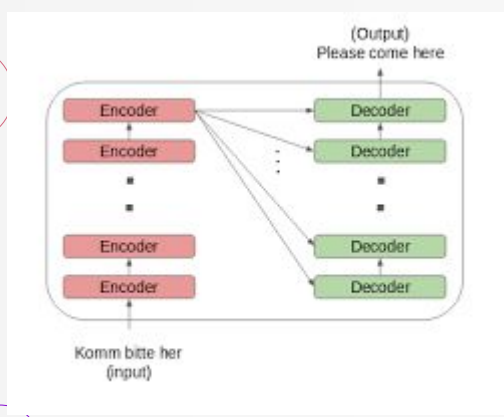
Hey !
It's us.



Bot

Is a pretrained
RoBERTa
Transformer fine
tuned on covid
data





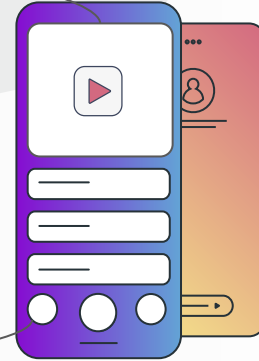
#Technocrats



<- Request

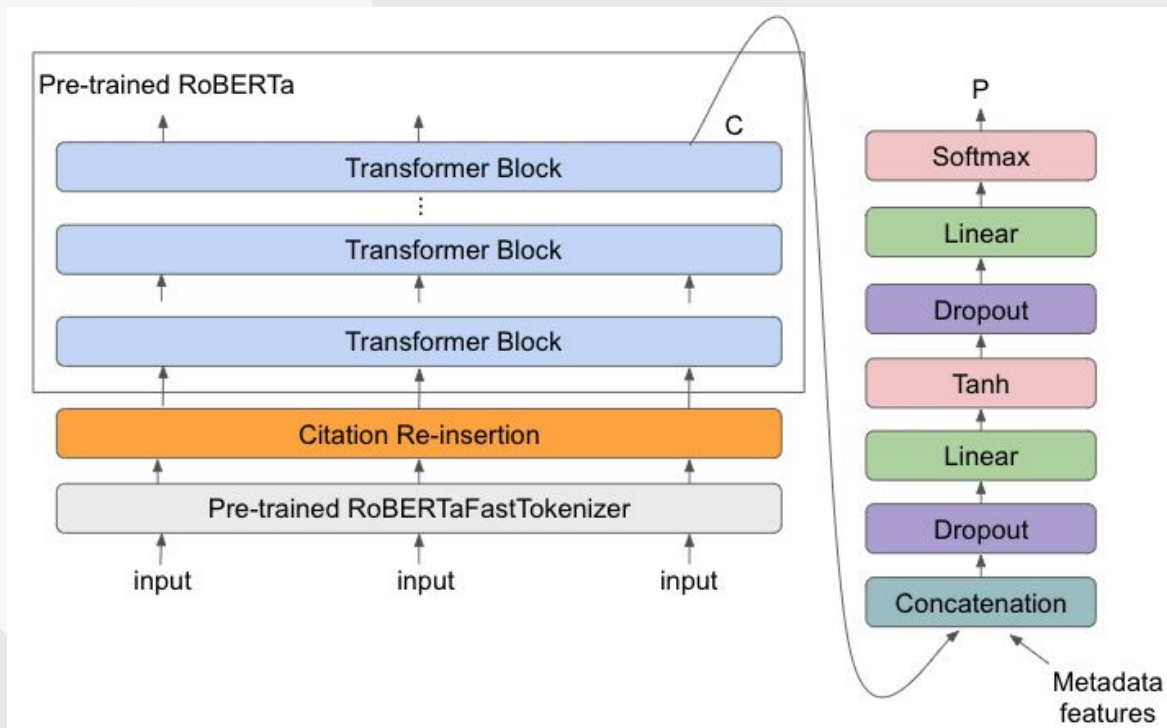


Response ->



RoBERTa

#Technocrats





#Technocrats

Okay , so why did we use **PRETRAINED**
Model ?

Tradeoff of Time and
Computational Power

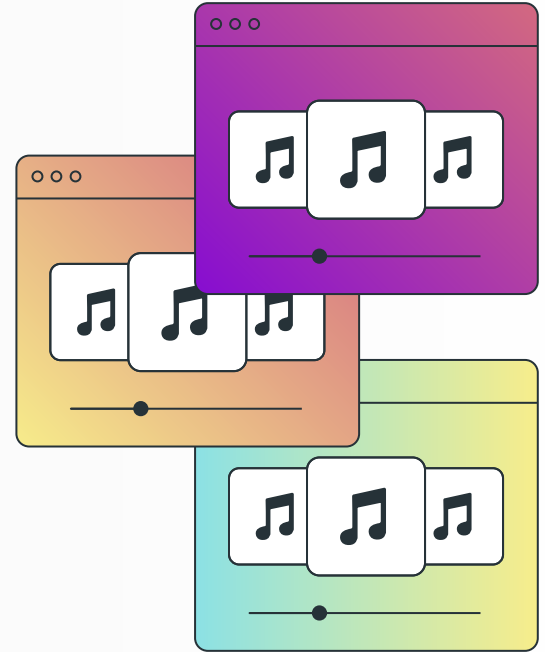
Complexity of Transformers !

Vector

My Publication on PyPi

We want to solve a
bigger PROBLEM.

**Problem : How to know if
we have chance of getting
infected ?**





#Technocrats

So it's almost time for

Core Computer
Science

Out of the Box
thinking

Algorithms ka
Tadka

Okay , I love
GRAPHS





Covine :

Trace Covid Send Alerts



FEATURE #1 : TRACING SYSTEM



Problem



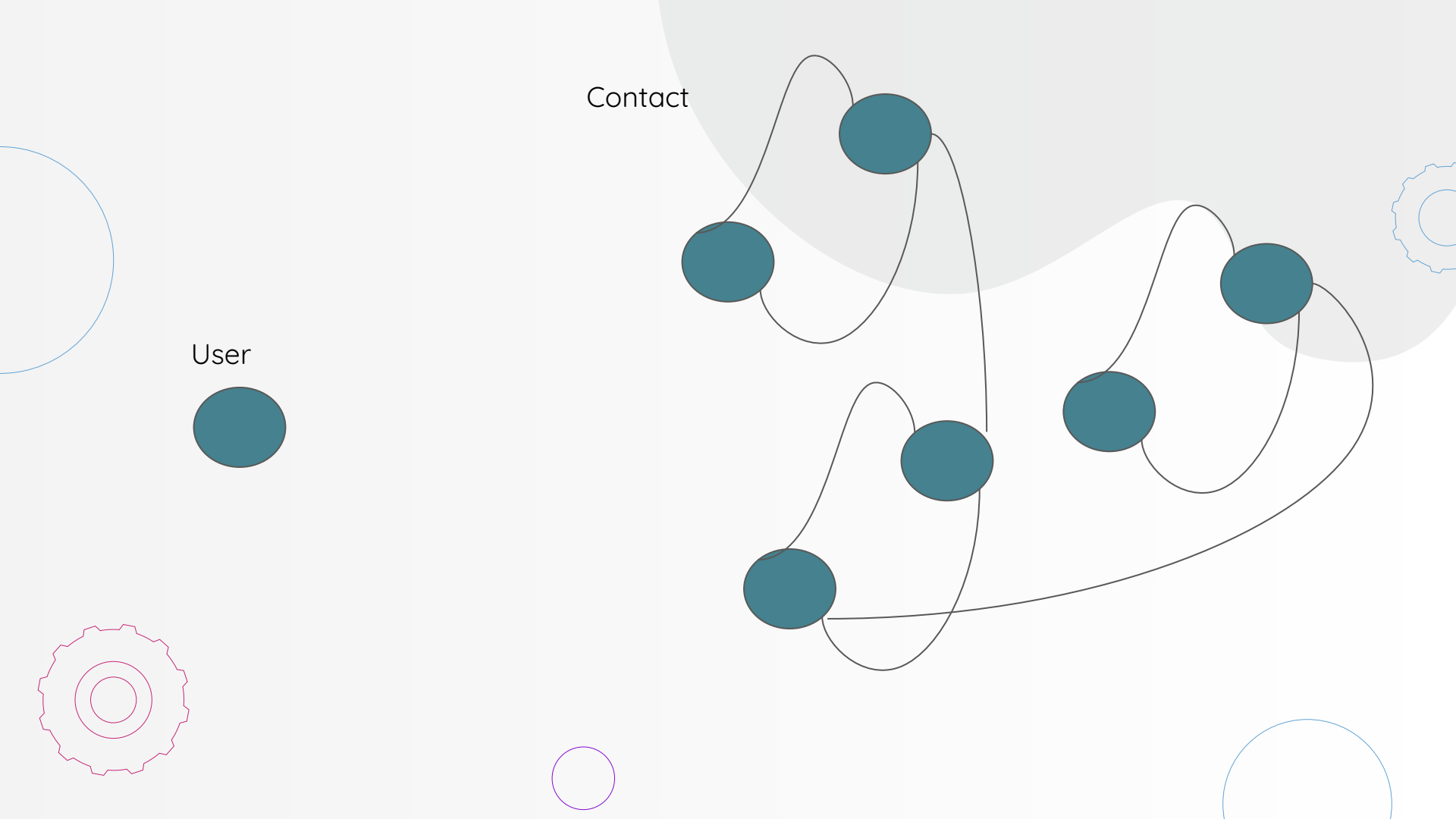
The theory



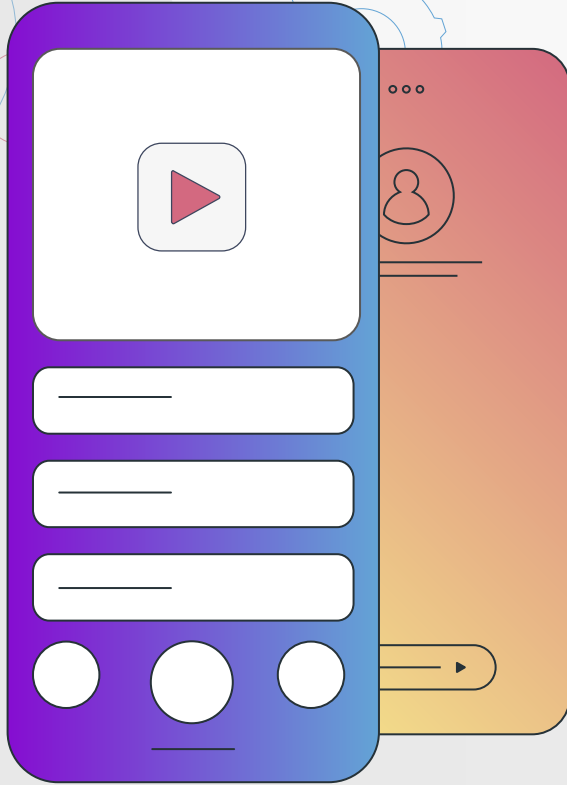
**The
application**

#Technocrats

Attention Geeks !



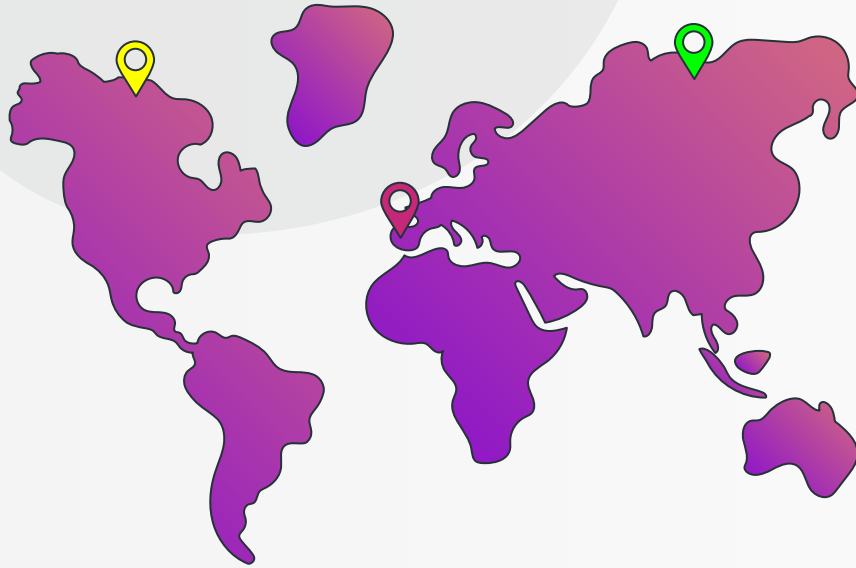
ID	Location	Time
1	Home	10:00
2	Work	12:00
3	Store	14:00
4	Home	16:00
5	Work	18:00
6	Store	20:00
7	Home	22:00
8	Work	24:00
9	Store	26:00
10	Home	28:00
11	Work	30:00
12	Store	32:00
13	Home	34:00
14	Work	36:00
15	Store	38:00
16	Home	40:00
17	Work	42:00
18	Store	44:00
19	Home	46:00
20	Work	48:00
21	Store	50:00
22	Home	52:00
23	Work	54:00
24	Store	56:00
25	Home	58:00
26	Work	60:00
27	Store	62:00
28	Home	64:00
29	Work	66:00
30	Store	68:00
31	Home	70:00
32	Work	72:00
33	Store	74:00
34	Home	76:00
35	Work	78:00
36	Store	80:00
37	Home	82:00
38	Work	84:00
39	Store	86:00
40	Home	88:00
41	Work	90:00
42	Store	92:00
43	Home	94:00
44	Work	96:00
45	Store	98:00
46	Home	100:00
47	Work	102:00
48	Store	104:00
49	Home	106:00
50	Work	108:00
51	Store	110:00
52	Home	112:00
53	Work	114:00
54	Store	116:00
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56	Work	120:00
57	Store	122:00
58	Home	124:00
59	Work	126:00
60	Store	128:00
61	Home	130:00
62	Work	132:00
63	Store	134:00
64	Home	136:00
65	Work	138:00
66	Store	140:00
67	Home	142:00
68	Work	144:00
69	Store	146:00
70	Home	148:00
71	Work	150:00
72	Store	152:00
73	Home	154:00
74	Work	156:00
75	Store	158:00
76	Home	160:00
77	Work	162:00
78	Store	164:00
79	Home	166:00
80	Work	168:00
81	Store	170:00
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85	Home	178:00
86	Work	180:00
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90	Store	188:00
91	Home	190:00
92	Work	192:00
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94	Home	196:00
95	Work	198:00
96	Store	200:00
97	Home	202:00
98	Work	204:00
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105	Store	218:00
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107	Work	222:00
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109	Home	226:00
110	Work	228:00
111	Store	230:00
112	Home	232:00
113	Work	234:00
114	Store	236:00
115	Home	238:00
116	Work	240:00
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118	Home	244:00
119	Work	246:00
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121	Home	250:00
122	Work	252:00
123	Store	254:00
124	Home	256:00
125	Work	258:00
126	Store	260:00
127	Home	262:00
128	Work	264:00
129	Store	266:00
130	Home	268:00
131	Work	270:00
132	Store	272:00
133	Home	274:00
134	Work	276:00
135	Store	278:00
136</		



FEATURE #2 : REPORTING PORTAL & ALERT

Infected node Reports covid19 &
all adjacent nodes of infected
person are alerted.

FEATURE #3 CROWD-MAP



Safe Zone

Places with low head counts



Risk Zone

Places with higher head counts



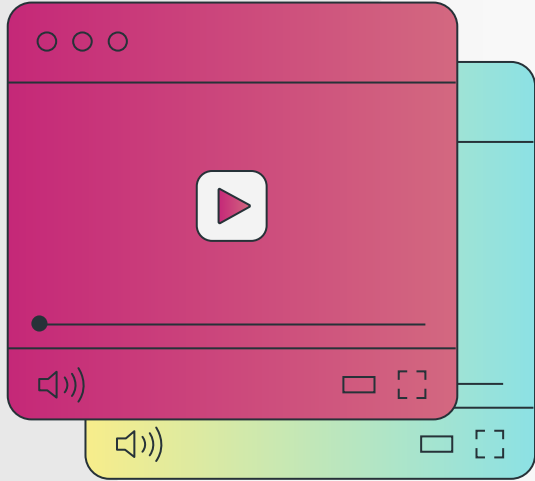
High Risk Zone

Crowded places with more positives .

plays dynamic count of people at a place(crowd intensity)

we know places to avoid :)

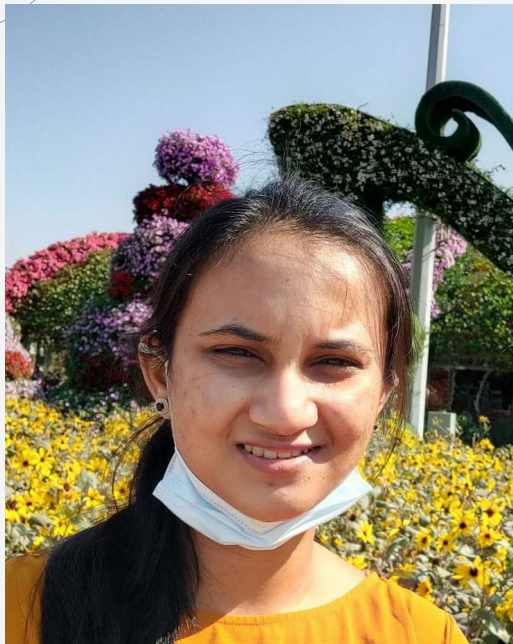
WHAT IS USABILITY?



Do you know **Aarogya Setu App** does not have this simple yet powerful feature ?

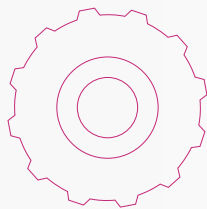
Prevention is better than cure , afterall. So , we are gonna wrap our app around Aarogya Setu . Heyyy !! Open Source contribution.

The simple graph Algorithm that we use is applicable to lots of problems !



Ashiqa Rahman

Full Stack Developer
3rd year CSE NITW



**This
Is
Us**



Anshuman Mishra

Full Stack Developer
3rd year ECE NITW



The background features a light gray gradient with several decorative elements: a large, irregular gray shape on the right side; a blue arc in the top-left corner; a pink gear icon at the top center; a pink circle at the top right; a purple circle in the middle; a purple circle at the bottom left; a blue circle at the bottom right; and a blue gear icon at the bottom center.

THANKS!