

SAKSHAM TALWAR

Kumara Park West, Guttahalli, Bengaluru, Karnataka 560020, India

Email: work.sakshamtalwar@gmail.com | Phone: (+91) 7217739614

GitHub: [/SakshamTalwar](https://github.com/SakshamTalwar)

LinkedIn: [/Saksham-Talwar](https://www.linkedin.com/in/Saksham-Talwar)

SUMMARY:

Passionate Computer Applications student with hands-on experience in software development, web technologies, and IoT-based solutions. Strong communicator with a collaborative mindset, eager to contribute to real-world, scalable, and user-focused software solutions.

-View my live portfolio at SakshamTalwar.github.io/Portfolio

EDUCATION:

- Graduation in Bachelor of Computer Applications (Maharishi Dayanand University, Rohtak) **(73.5%)**
- CBSE Class XII **(69%)**
- CBSE Class X **(67%)**

2022-2025

2022

2020

TECHNICAL SKILLS:

Programming Languages:

Java, C++, Python, JavaScript, HTML, CSS

Databases:

MySQL, SQL, Database Design

Frameworks & Libraries:

Apache Tomcat, Bootstrap, JDBC, JSP/Servlets (basic),
Hibernate

Operating Systems:

Windows, Linux (basic CLI)

Tools & Platforms:

VS Code, IntelliJ J, Dev-C++, Eclipse, Git & GitHub, Arduino
IDE, Apache Tomcat

Concepts:

OOP, Data Structures & Algorithms, Exception Handling,
SDLC

IoT & Hardware:

ESP32, Sensors, Blynk App, Sims

Other Tools:

Microsoft Excel, Power BI

PROFESSIONAL EXPERIENCE & PROJECTS:

- Pet Shop Website – AbHappyPaws.com -Live Portfolio and updates Website**
Built a responsive multi-page website for a pet shop using HTML, CSS, and JavaScript. Includes product galleries, category pages, and Google Photos integration.
- Online Crockery Store – ThePotteryPassion.com – Live Online Store**
Built a Custom Coded Online store with Shopify using liquid, with features: cart, wish-list, order management, custom theme, custom payment page etc.
- Grocery Inventory Management System -Java Project**
Java-based web app with JDBC, MySQL, and HTML. Supports CRUD operations, admin dashboard, brand/category filtering, and CSV import/export.
- Will it Rain on my Parade? – Nasa Project**
Enter Date and month and get past 20 years stats if it will rain or not on the selected date with visual graphs and related data.
- Door Unlock via Blynk App – IOT Project**
Built a remote door access system using ESP32, RFID, Blynk App, and physical switch for multi-mode unlocking.

CERTIFICATIONS:

- **IoT Soil Moisture Sensor Project – Hackathon Winner** ~ *SGT University (Feb 2024)*
Developed a smart irrigation system using Arduino and sensors, awarded for innovation and efficiency.
- **J.P. Morgan Software Engineering Virtual Experience** ~ *Forage (July 2024)*
Gained practical exposure to agile development, Git workflow, and bug fixing through a virtual internship simulation.
- **Certificate in Excel Proficiency & Analytics (CEPA) – Achieved A Grade** ~ *Anudip Foundation & DPGITM (Dec 2024)*
in the certification and mastered Excel tools for data cleaning, visualization, and basic analytics.
- **Summer Analytics 2025 – Consulting & Analytics Club** ~ *IIT Guwahati (July 2025)*
Completed a 6-week case-based program focused on analytics, problem-solving, and data interpretation using real-world datasets.
- **NASA Space App Challenge** ~ *NASA (OCT 2025)*
Build a web app using java, python and react on “Will it rain on my Parade?”
- **Fundamentals of Java Core & Web Programming – Achieved A+ grade** ~ *Anudip Foundation (Dec 2025)*
while learning core Java concepts and web development fundamentals.

LEADERSHIP & VOLUNTEERING:

- **Photography and Logistics Coordinator:** Led photography and logistics for college festivals, coordinating a team of 10 members to cover events attended by over 300 students, ensuring smooth operations and high-quality event coverage.
- **Photography Club Leader:** Organized workshops and exhibitions as Photography Club Leader, increasing member engagement by 20%.
- **Literary Club Volunteer Leader:** Led literary events and debates as Literary Club Volunteer Leader, enhancing campus literary culture.
- **Tech Event Organizer:** Organized a BGMI gaming tournament with a team of 5, engaging over 200 participants and enhancing event coordination skills.

LANGUAGES:

Fluent in English, Hindi, and Punjabi, and basic French.

HOBBIES:

Engaging in Technology Projects, Web Development, Photography, Moto rides, and singing.

PORTFOLIO

Saksham Talwar



BENGALURU, INDIA | BCA GRADUATE



1

2

3

4

5

6

7

8

9

Hello,

SAKSHAM TALWAR

Java Core, Web Programming, & Database Design.

I am a Computer Applications graduate with a strong foundation in software development and IoT-based solutions. I specialize in building scalable web applications using Java, Html, CSS, JS, and React, with a focus on real-world utility.



1

2

3

4

5

6

7

8

9

EDUCATION

Bachelor of Computer Applications (BCA)

- University: Maharishi Dayanand University, Rohtak
- Session: 2022 - 2025
- Performance: **73.5%**

Senior Secondary (Class XII)

- Board: CBSE
- Year: 2022
- Performance: 69%

Secondary (Class X)

- Board: CBSE
- Year: 2020
- Performance: 67%



1

2

3

4

5

6

7

8

9

TECH STACK

JAVA ECOSYSTEM

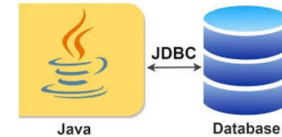
- Core Java (OOP, Exception Handling, Collections)
- JSP & Servlets
- JDBC (Database Connectivity)
- Hibernate (ORM Framework)

WEB DEVELOPMENT

- HTML5 & CSS3
- JavaScript
- React.js (basics but can develop anything using prompt eng.)

DATA & DEVOPS

- Databases: MySQL, SQL, Database Design
- Server: Apache Tomcat, XAMPP
- Version Control: Git & GitHub
- IDEs: IntelliJ IDEA, VS Code, Eclipse



1

2

3

4

5

6

7

8

9

```

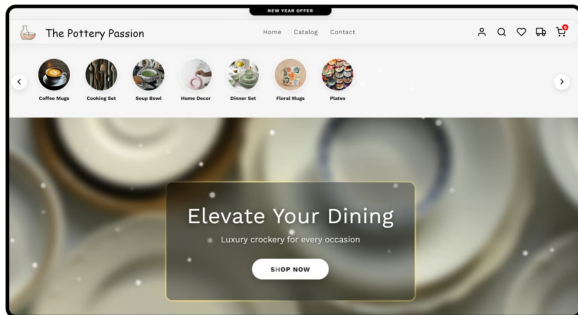
1 // DataSource.java
2
3 import java.io.InputStream;
4 import java.io.OutputStream;
5 import java.net.HttpURLConnection;
6 import java.net.MalformedURLException;
7 import java.net.URL;
8 import java.util.HashMap;
9 import java.util.Map;
10
11 public class DataSource {
12     private static DataSource dataSource;
13
14     static {
15         try {
16             dataSource = new HiberConfig();
17         } catch (Exception e) {
18             e.printStackTrace();
19         }
20     }
21
22     // Connection pool settings
23     private static final int poolSize = 10;
24     private static final int maxIdleTime = 30;
25     private static final int maxWaitTime = 30;
26     private static final int maxConnAge = 30;
27     private static final int maxConnIdleTime = 30;
28     private static final int maxConnLifetime = 30;
29     private static final int maxConnIdleTime = 30;
30     private static final int maxConnLifetime = 30;
31
32     // Database settings
33     private static final String dbName = "hiber";
34     private static final String user = "hiber";
35     private static final String password = "hiber";
36     private static final String url = "jdbc:hiber://localhost:hiber/hiber";
37
38     // DataSource methods
39     public static DataSource getInstance() {
40         return dataSource;
41     }
42
43     public static void setDataSource(DataSource dataSource) {
44         dataSource = dataSource;
45     }
46
47     public static void setPoolSize(int poolSize) {
48         poolSize = poolSize;
49     }
50
51     public static void setMaxIdleTime(int maxIdleTime) {
52         maxIdleTime = maxIdleTime;
53     }
54
55     public static void setMaxWaitTime(int maxWaitTime) {
56         maxWaitTime = maxWaitTime;
57     }
58
59     public static void setMaxConnAge(int maxConnAge) {
60         maxConnAge = maxConnAge;
61     }
62
63     public static void setMaxConnIdleTime(int maxConnIdleTime) {
64         maxConnIdleTime = maxConnIdleTime;
65     }
66
67     public static void setMaxConnLifetime(int maxConnLifetime) {
68         maxConnLifetime = maxConnLifetime;
69     }
70
71     public static void setDbName(String dbName) {
72         dbName = dbName;
73     }
74
75     public static void setUser(String user) {
76         user = user;
77     }
78
79     public static void setPassword(String password) {
80         password = password;
81     }
82
83     public static void setUrl(String url) {
84         url = url;
85     }
86
87     // DataSource methods
88     public static DataSource getInstance() {
89         return dataSource;
90     }
91
92     public static void setDataSource(DataSource dataSource) {
93         dataSource = dataSource;
94     }
95
96     public static void setPoolSize(int poolSize) {
97         poolSize = poolSize;
98     }
99
100    public static void setMaxIdleTime(int maxIdleTime) {
101        maxIdleTime = maxIdleTime;
102    }
103
104    public static void setMaxWaitTime(int maxWaitTime) {
105        maxWaitTime = maxWaitTime;
106    }
107
108    public static void setMaxConnAge(int maxConnAge) {
109        maxConnAge = maxConnAge;
110    }
111
112    public static void setMaxConnIdleTime(int maxConnIdleTime) {
113        maxConnIdleTime = maxConnIdleTime;
114    }
115
116    public static void setMaxConnLifetime(int maxConnLifetime) {
117        maxConnLifetime = maxConnLifetime;
118    }
119
120    public static void setDbName(String dbName) {
121        dbName = dbName;
122    }
123
124    public static void setUser(String user) {
125        user = user;
126    }
127
128    public static void setPassword(String password) {
129        password = password;
130    }
131
132    public static void setUrl(String url) {
133        url = url;
134    }
135
136    // DataSource methods
137    public static DataSource getInstance() {
138        return dataSource;
139    }
140
141    public static void setDataSource(DataSource dataSource) {
142        dataSource = dataSource;
143    }
144
145    public static void setPoolSize(int poolSize) {
146        poolSize = poolSize;
147    }
148
149    public static void setMaxIdleTime(int maxIdleTime) {
150        maxIdleTime = maxIdleTime;
151    }
152
153    public static void setMaxWaitTime(int maxWaitTime) {
154        maxWaitTime = maxWaitTime;
155    }
156
157    public static void setMaxConnAge(int maxConnAge) {
158        maxConnAge = maxConnAge;
159    }
160
161    public static void setMaxConnIdleTime(int maxConnIdleTime) {
162        maxConnIdleTime = maxConnIdleTime;
163    }
164
165    public static void setMaxConnLifetime(int maxConnLifetime) {
166        maxConnLifetime = maxConnLifetime;
167    }
168
169    public static void setDbName(String dbName) {
170        dbName = dbName;
171    }
172
173    public static void setUser(String user) {
174        user = user;
175    }
176
177    public static void setPassword(String password) {
178        password = password;
179    }
180
181    public static void setUrl(String url) {
182        url = url;
183    }
184
185    // DataSource methods
186    public static DataSource getInstance() {
187        return dataSource;
188    }
189
190    public static void setDataSource(DataSource dataSource) {
191        dataSource = dataSource;
192    }
193
194    public static void setPoolSize(int poolSize) {
195        poolSize = poolSize;
196    }
197
198    public static void setMaxIdleTime(int maxIdleTime) {
199        maxIdleTime = maxIdleTime;
200    }
201
202    public static void setMaxWaitTime(int maxWaitTime) {
203        maxWaitTime = maxWaitTime;
204    }
205
206    public static void setMaxConnAge(int maxConnAge) {
207        maxConnAge = maxConnAge;
208    }
209
210    public static void setMaxConnIdleTime(int maxConnIdleTime) {
211        maxConnIdleTime = maxConnIdleTime;
212    }
213
214    public static void setMaxConnLifetime(int maxConnLifetime) {
215        maxConnLifetime = maxConnLifetime;
216    }
217
218    public static void setDbName(String dbName) {
219        dbName = dbName;
220    }
221
222    public static void setUser(String user) {
223        user = user;
224    }
225
226    public static void setPassword(String password) {
227        password = password;
228    }
229
230    public static void setUrl(String url) {
231        url = url;
232    }
233
234    // DataSource methods
235    public static DataSource getInstance() {
236        return dataSource;
237    }
238
239    public static void setDataSource(DataSource dataSource) {
240        dataSource = dataSource;
241    }
242
243    public static void setPoolSize(int poolSize) {
244        poolSize = poolSize;
245    }
246
247    public static void setMaxIdleTime(int maxIdleTime) {
248        maxIdleTime = maxIdleTime;
249    }
250
251    public static void setMaxWaitTime(int maxWaitTime) {
252        maxWaitTime = maxWaitTime;
253    }
254
255    public static void setMaxConnAge(int maxConnAge) {
256        maxConnAge = maxConnAge;
257    }
258
259    public static void setMaxConnIdleTime(int maxConnIdleTime) {
260        maxConnIdleTime = maxConnIdleTime;
261    }
262
263    public static void setMaxConnLifetime(int maxConnLifetime) {
264        maxConnLifetime = maxConnLifetime;
265    }
266
267    public static void setDbName(String dbName) {
268        dbName = dbName;
269    }
270
271    public static void setUser(String user) {
272        user = user;
273    }
274
275    public static void setPassword(String password) {
276        password = password;
277    }
278
279    public static void setUrl(String url) {
280        url = url;
281    }
282
283    // DataSource methods
284    public static DataSource getInstance() {
285        return dataSource;
286    }
287
288    public static void setDataSource(DataSource dataSource) {
289        dataSource = dataSource;
290    }
291
292    public static void setPoolSize(int poolSize) {
293        poolSize = poolSize;
294    }
295
296    public static void setMaxIdleTime(int maxIdleTime) {
297        maxIdleTime = maxIdleTime;
298    }
299
300    public static void setMaxWaitTime(int maxWaitTime) {
301        maxWaitTime = maxWaitTime;
302    }
303
304    public static void setMaxConnAge(int maxConnAge) {
305        maxConnAge = maxConnAge;
306    }
307
308    public static void setMaxConnIdleTime(int maxConnIdleTime) {
309        maxConnIdleTime = maxConnIdleTime;
310    }
311
312    public static void setMaxConnLifetime(int maxConnLifetime) {
313        maxConnLifetime = maxConnLifetime;
314    }
315
316    public static void setDbName(String dbName) {
317        dbName = dbName;
318    }
319
320    public static void setUser(String user) {
321        user = user;
322    }
323
324    public static void setPassword(String password) {
325        password = password;
326    }
327
328    public static void setUrl(String url) {
329        url = url;
330    }
331
332    // DataSource methods
333    public static DataSource getInstance() {
334        return dataSource;
335    }
336
337    public static void setDataSource(DataSource dataSource) {
338        dataSource = dataSource;
339    }
340
341    public static void setPoolSize(int poolSize) {
342        poolSize = poolSize;
343    }
344
345    public static void setMaxIdleTime(int maxIdleTime) {
346        maxIdleTime = maxIdleTime;
347    }
348
349    public static void setMaxWaitTime(int maxWaitTime) {
350        maxWaitTime = maxWaitTime;
351    }
352
353    public static void setMaxConnAge(int maxConnAge) {
354        maxConnAge = maxConnAge;
355    }
356
357    public static void setMaxConnIdleTime(int maxConnIdleTime) {
358        maxConnIdleTime = maxConnIdleTime;
359    }
360
361    public static void setMaxConnLifetime(int maxConnLifetime) {
362        maxConnLifetime = maxConnLifetime;
363    }
364
365    public static void setDbName(String dbName) {
366        dbName = dbName;
367    }
368
369    public static void setUser(String user) {
370        user = user;
371    }
372
373    public static void setPassword(String password) {
374        password = password;
375    }
376
377    public static void setUrl(String url) {
378        url = url;
379    }
380
381    // DataSource methods
382    public static DataSource getInstance() {
383        return dataSource;
384    }
385
386    public static void setDataSource(DataSource dataSource) {
387        dataSource = dataSource;
388    }
389
390    public static void setPoolSize(int poolSize) {
391        poolSize = poolSize;
392    }
393
394    public static void setMaxIdleTime(int maxIdleTime) {
395        maxIdleTime = maxIdleTime;
396    }
397
398    public static void setMaxWaitTime(int maxWaitTime) {
399        maxWaitTime = maxWaitTime;
400    }
401
402    public static void setMaxConnAge(int maxConnAge) {
403        maxConnAge = maxConnAge;
404    }
405
406    public static void setMaxConnIdleTime(int maxConnIdleTime) {
407        maxConnIdleTime = maxConnIdleTime;
408    }
409
410    public static void setMaxConnLifetime(int maxConnLifetime) {
411        maxConnLifetime = maxConnLifetime;
412    }
413
414    public static void setDbName(String dbName) {
415        dbName = dbName;
416    }
417
418    public static void setUser(String user) {
419        user = user;
420    }
421
422    public static void setPassword(String password) {
423        password = password;
424    }
425
426    public static void setUrl(String url) {
427        url = url;
428    }
429
430    // DataSource methods
431    public static DataSource getInstance() {
432        return dataSource;
433    }
434
435    public static void setDataSource(DataSource dataSource) {
436        dataSource = dataSource;
437    }
438
439    public static void setPoolSize(int poolSize) {
440        poolSize = poolSize;
441    }
442
443    public static void setMaxIdleTime(int maxIdleTime) {
444        maxIdleTime = maxIdleTime;
445    }
446
447    public static void setMaxWaitTime(int maxWaitTime) {
448        maxWaitTime = maxWaitTime;
449    }
450
451    public static void setMaxConnAge(int maxConnAge) {
452        maxConnAge = maxConnAge;
```

PROJECT: E-COMMERCE WEBSITE

Custom Online Store Development & Responsive Web Design

ThePotteryPassion.com (Online Crockery Store)

Tech Stack: Shopify Liquid, HTML, CSS, Custom Payment webpage



The Build:

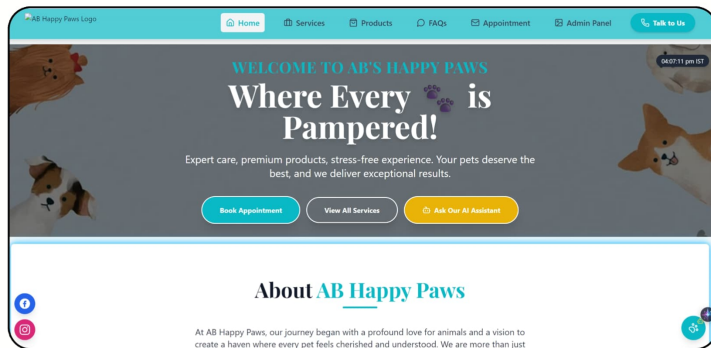
- Custom Architecture: Developed a customized logo and a custom-coded store using Shopify's Liquid template language rather than pre-made themes.

Features:

- Engineered specific modules for Wish-lists, Order Management, and a custom Payment Page flow.
- Added Buy by Video section, custom Insta story styled categories, animations, testimonials, a mega menu for desktop and hamburger styled menu for the pocket devices
- Did SEO Optimization and made social accounts on their behalf for their store

AbHappyPaws.com (Pet Shop Website)

Tech Stack: HTML5, CSS3, JavaScript



The Build:

- Responsive Core: Built a fully responsive multi-page architecture that adapts to mobile and desktop screens.
- API Integration: Integrated Google Photos to create dynamic product galleries that update automatically.
- Customized logo, Integrated Map and a Working Ai Helper for User Queries

PROJECT: WILL IT RAIN ON MY PARADE?

WEATHERWISE | NASA Space Apps Challenge | Virtual Hackathon

1

2

3

4

5

6

7

8

9

Event: NASA Space Apps Challenge (Oct 2025)

Role: Full Stack Developer

The Tech Stack:

Core: Java & Python

Frontend: React.js

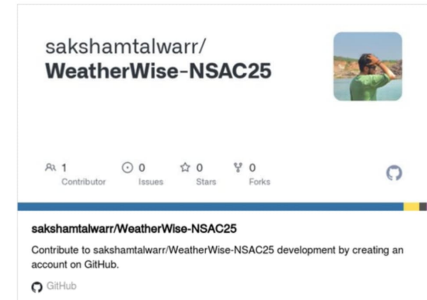
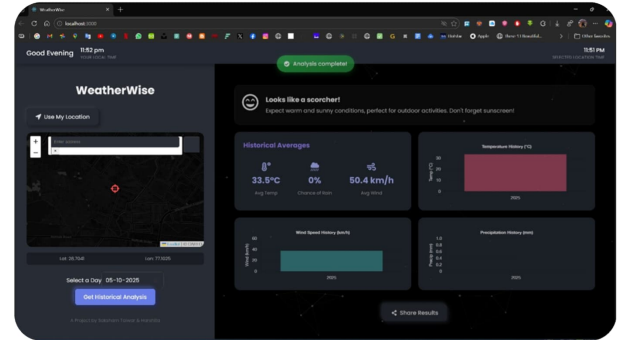
The Solution:

Hybrid Architecture: Integrated Python for data processing with a Java backend structure.

Predictive Analysis: Processed 20 years of historical weather data to generate statistical rain probabilities for specific dates.

Visual Data:

Built a responsive interface to display trend graphs and weather forecasts.



SAFEGUARD- INDIA

<https://sakshamtalwarr.github.io/SafeGuard-India/>

1

2

3

4

5

6

7

8

9

Project: Safe-Guard India (Hosted on GitHub Pages)

Tech Stack:

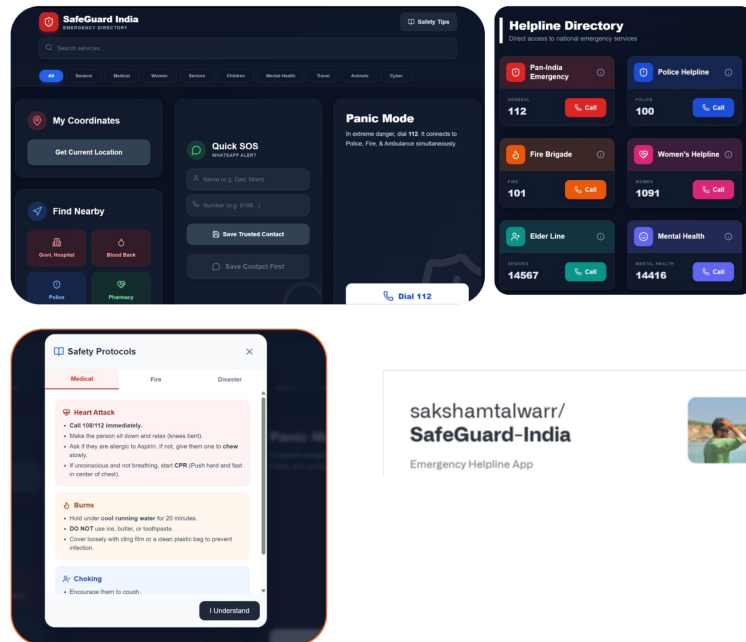
HTML5, CSS3, JavaScript

Objective:

Designed a rapid-access web portal to provide immediate safety resources for women in distress.

Key Features:

- Zero-Latency Interface: Optimized code structure to ensure the site loads instantly on low-bandwidth networks.
- Direct Action UI: prioritized "Panic" and "Helpline" buttons above the fold for immediate user access.
- Resource Aggregation: Centralized database of helpline numbers and safety guidelines.



PROFESSIONAL PROFILE



Experience | Certifications | Contact

Experience

Hackathon Winner (IoT Soil Moisture)

- Awarded for innovation in smart irrigation systems using Arduino/ ESP sensors.
- Developed a dashboard with hardware integration to visualize sensor data for small scale farmers

College Event Setup

Lead a Team and managed an event in college related to science and tech fair

Summer Analytics 2025 - Consulting & Analytics Club

Participated in IIT, Guwahati. There I solved the provided problem statements

Certifications

- Fundamentals of Java Core (A+ Grade) - Anudip Foundation.
- Certificate in Excel Proficiency (A Grade).

1

2

3

4

5

6

7

8

9

1

2

3

4

5

6

7

8

9



Let's Build Something Great.

SAKSHAM TALWAR



(+91) 7217739614



Bengaluru, Karnataka



work.sakshamtalwar@gmail.com

Visit my Portfolio here:



SCAN ME

CERTIFICATES





Technical Board
IIT Guwahati

Summer
Analytics '25

Certificate of PARTICIPATION

This is to certify that

Saksham Talwar

has successfully participated in and completed the 6-week Summer Analytics 2025 program organized by the Consulting & Analytics Club, IIT Guwahati, focused on Data Science and Machine Learning.



Prof. Swarup Bag,

Chairperson,
Technical Board
IIT Guwahati

Atri Chattopadhyay,

General Secretary,
Technical Board,
IIT Guwahati

Abhishek Das,

Secretary,
C&A Club,
IIT Guwahati

Abhi Tanwar,

Analytics Head,
C&A Club,
IIT Guwahati

Sumit Prabhakar,

ML Research Head,
C&A Club,
IIT Guwahati

Subhashree Kedia,

Projects and
Competition Head, C&A
Club, IIT Guwahati



Certificate of Merit is awarded to
SAKSHAM TALWAR

for successfully completing 421 hours of training on
Fundamentals of Java and Web Programming
from January 2025 to July 2025

at Anudip Foundation Skill and Career Development Center, Gurgaon
Haryana

Grade :- A1

Reg. No. :- U91900WB2007NPL116269

Student Reg. No. :- HRGUR/AF0481299



Monisha Banerjee
[Chief Executive Officer]

BANK OF AMERICA 

Anudip
Life. Transformed.

Certificate of Merit is awarded to
SAKSHAM TALWAR

for successfully completing 82 hours of training on
Certificate in Excel Proficiency and Analytics
from Anudip Foundation Skill and Career Development Centre
at Gurgaon, Haryana.

Grade :- A

Duration :- October 2024 to December 2024

Student Reg. No. :- HRGSH/AF0454447



Monisha Banerjee
[Chief Executive Officer]



GALACTIC PROBLEM SOLVER

The 2025 NASA International Space Apps Challenge proudly presents this certificate to

Saksham Talwar

for outstanding participation and efforts to address
challenges we face on Earth and in space.

Dr. Keith Gaddis

Program Scientist, NASA International Space Apps Challenge

Date

October 4–5, 2025



IN PARTNERSHIP WITH



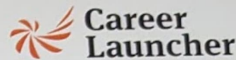
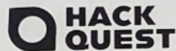


K.R. MANGALAM UNIVERSITY
THE COMPLETE WORLD OF EDUCATION



GDG New Delhi

GDG Cloud Noida



CERTIFICATE

OF PARTICIPATION

PROUDLY PRESENTED TO

Saksham Talwar (98)

for actively participating in **Hack KRMU 4.0**, organized by **K.R. Mangalam University, Gurugram**.
Their enthusiasm, dedication, and problem-solving approach have contributed to the spirit of
innovation and collaboration in this hackathon.

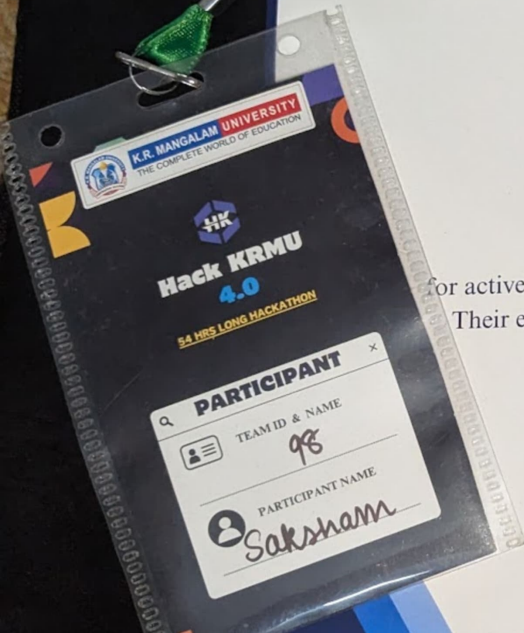
Shweta Bansal

Dr. Shweta Bansal
Convenor, Hack KRMU 4.0



Amar Saraswat

Dr. Amar Saraswat
Convenor, Hack KRMU 4.0





PRESENTED BY  Google Developer Groups On Campus

CERTIFICATE OF ACHIEVEMENT

This certificate is presented to

Saksham Talwar

in recognition of their initiative and contribution to the GDG on Campus Solution Challenge, powered by Hack2skill.
By submitting an innovative idea, they joined a community of changemakers harnessing the power of AI to address real-world problems and create a better future.

Certificate ID: 2025H2S01GSC-I11738

