

DIGITAL PORTFOLIO

by **Saksham Gupta**

Registration No. - **20BCY10088**



Saksham Gupta

Aspiring Data Analyst

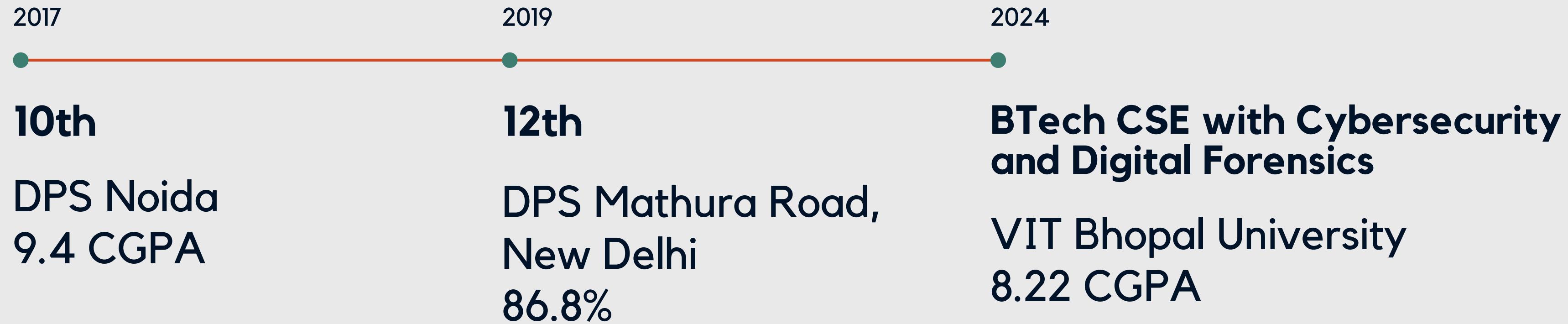
Hello, I'm Saksham Gupta, and I am currently in my final year, pursuing a Bachelor of Technology in Computer Science with a specialisation in Cybersecurity and Digital Forensics at VIT Bhopal University. I'm from Noida. I've my extensive experience and achievements in open-source contributions. I've written three research papers. I have a deep passion for the concept that data is the new electricity. Throughout my academic journey, I've dedicated myself to projects within this domain like "Logistic Sorcerer" project, where we developed an AI-based supply chain management system. This project earned me recognition as one of the top 20 participants in the CTS Prodigy Hackathon at our university. As I work extensively with data, my primary concern is its security. In pursuit of this interest, I have also engaged in cybersecurity projects, such as working on an audio-based CAPTCHA system. I'm a competitive spirit on the football field, having experience at the district level.

Links:

<https://www.linkedin.com/in/saksham27>

<https://github.com/sakshamg27>

Education



Work Experience

01 The Sparks Foundation

Web Development and Designing
Web Development and Designing

02

TwoWaits
Community Manager



Technical Skills

>>> SQL

>>> Java

>>> OOPS

>>> C++

>>> Web Development

Certifications

>>> [Microsoft Certified Security, Compliance, and Identity Fundamentals \(9Beh-s4YL\)](#)

>>> [Google UX Design Professional by Coursera](#)

>>> [Cybersecurity Fundamentals - IBM](#)

>>> [Introduction to Cybersecurity - Cisco](#)

>>> [HTML5 - University of Michigan by Coursera](#)





NOTABLE PROJECTS

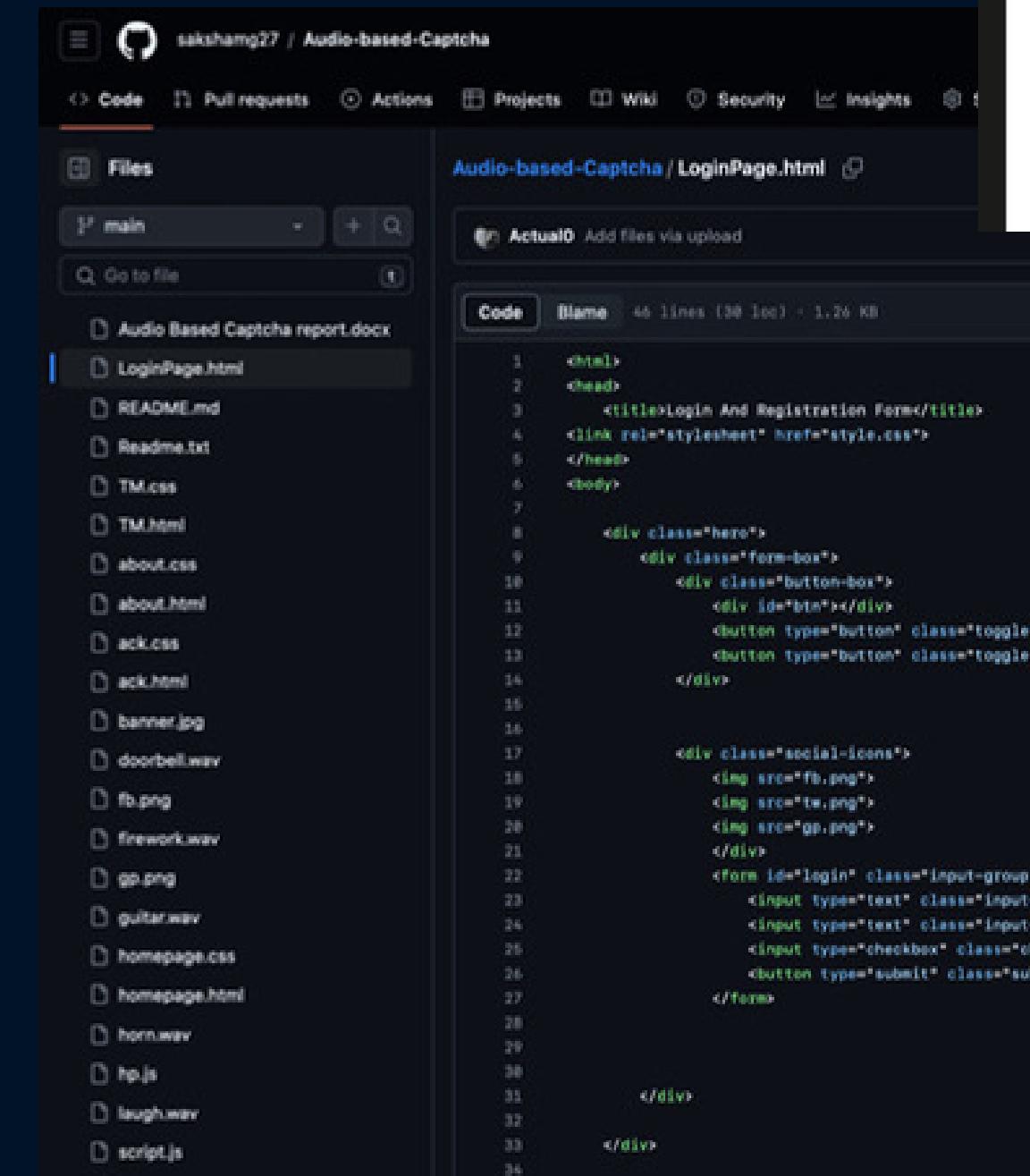
PROJECT 01

Audio Based Captcha

To protect a website from numerous attacks by utilising audio-based captcha, which is more effective than conventional captcha that relies on text to distinguish between humans and bots

Technology: Authentication, Confidentiality, JavaScript, HTML, CSS

Role: Web Developer and Data Management



The screenshot shows a GitHub repository named "sakshamg27 / Audio-based-Captcha". The "Code" tab is selected, displaying the contents of the "LoginPage.html" file. The code is as follows:

```
<html>
<head>
    <title>Login And Registration Form</title>
    <link rel="stylesheet" href="style.css">
</head>
<body>

    <div class="hero">
        <div class="form-box">
            <div class="button-box">
                <div id="btm"></div>
                <button type="button" class="toggle-btn" onclick="login()>Log In</button>
                <button type="button" class="toggle-btn" onclick="register()>Register</button>
            </div>
        </div>
    </div>

    <div class="social-icons">
        
        
        
    </div>

    <form id="login" class="input-group">
        <input type="text" class="input-field" placeholder="User Id" required>
        <input type="text" class="input-field" placeholder="Enter Password" required>
        <input type="checkbox" class="check-box"><span>Remember Password</span>
        <button type="submit" class="submit-btn" onclick="document.location='file:///E:/project/test.html'">Login</button>
    </form>

</body>
```

Audio Based Captchas to Prevent Various Web Attacks
A PROJECT REPORT
Submitted by
AKSHAT RAWAT (20BCY10036)
KUNAL DHINGRA (20BCY10018)
SAKSHAM GUPTA (20BCY10088)
SHASHWAT CHANDRA (20BCY10023)
In partial fulfillment for the award of the degree
Of
BACHELOR OF TECHNOLOGY
In
COMPUTER SCIENCE AND ENGINEERING
WITH SPECIALIZATION IN
CYBERSECURITY AND DIGITAL FORENSICS



SCHOOL OF COMPUTING SCIENCE AND ENGINEERING
VIT BHOPAL UNIVERSITY
KOTHRIKALAN, SEHORE
MADHYA PRADESH - 466114

DEC 2021

PROJECT 02

Paycheck

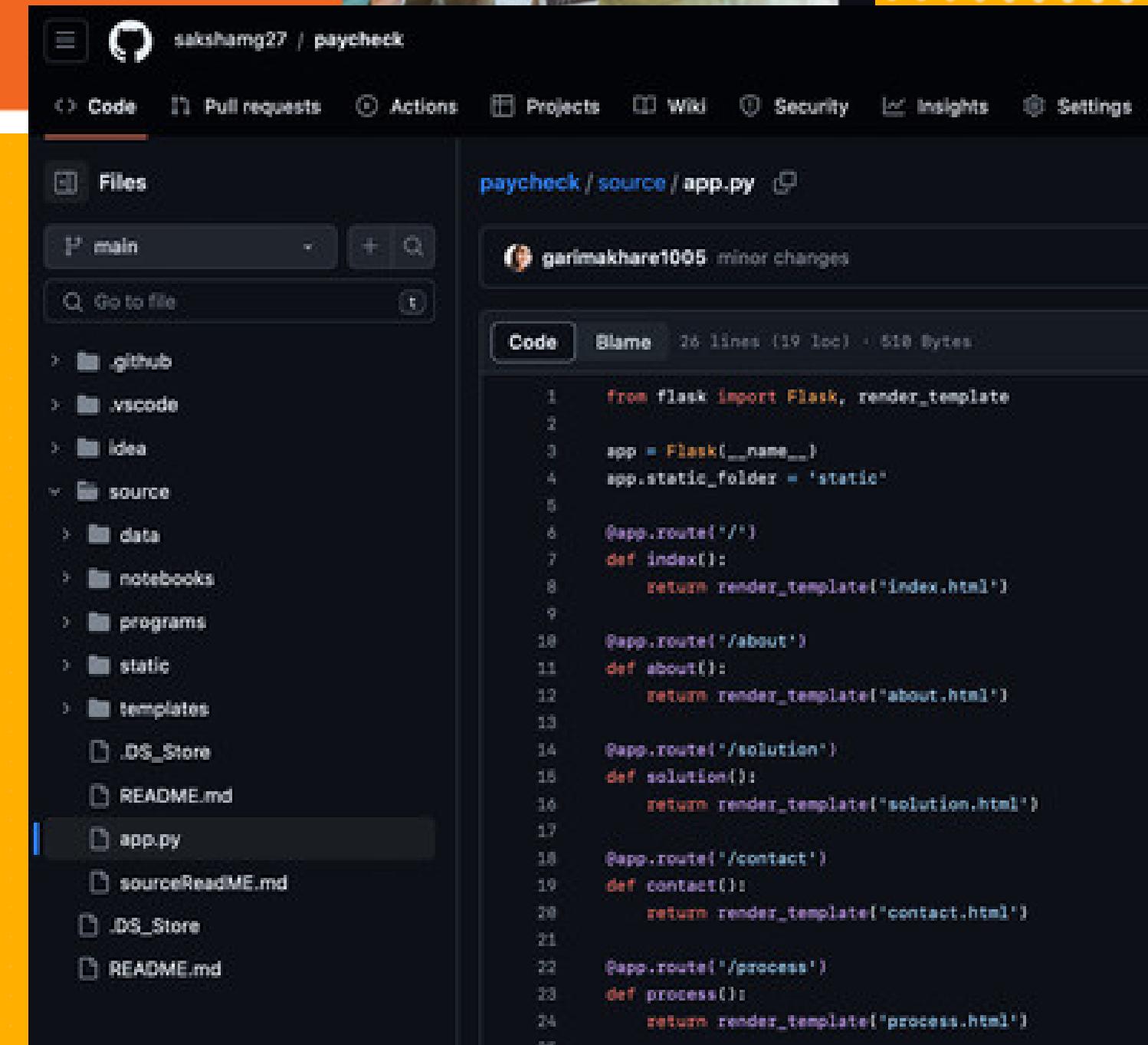
This project automates the process of check verification, it performs OCR on the given cheque image to extract the required text and then stores the data on SQL Database

Technology: Integrity, Authentication, Confidentiality, HTML, CSS, Python, Tensorflow, Numpy, SQL

Role: Web Developer & SQL Management



The image shows a screenshot of the Bank of Baroda Hackathon - 2022 registration page. At the top left is the Bank of Baroda logo with the text 'बँक ऑफ बडोदा' and 'Bank of Baroda'. At the top right is the Microsoft Azure Technology Partner logo. Below the logo, the text 'Bank of Baroda Hackathon - 2022' is displayed in a large, bold, blue font. Underneath, the text 'Your Team Name : SDGR' is shown in a white font. A section titled 'Your team bio:' follows, with the text: 'We are a team of highly motivated developers, aiming on creating projects that would benefit the society as a whole.' At the bottom left, the date 'Date : 22 August 2022' is mentioned. The bottom right features a photo of three people working together around a whiteboard.



The image shows a GitHub repository interface for a project named 'paycheck'. The repository was created by 'sakshamg27' on 22 August 2022. The 'Code' tab is selected, showing the file structure and content of 'app.py'. The code is a Flask application with routes for index, about, solution, contact, and process. It uses render_template to serve HTML files from the 'templates' directory. The repository also contains .github, .vscode, and idea folders, along with source, data, notebooks, programs, static, and templates subfolders. README.md and sourceReadME.md files are present, along with .DS_Store files.

```
from flask import Flask, render_template
app = Flask(__name__)
app.static_folder = 'static'

@app.route("/")
def index():
    return render_template("index.html")

@app.route("/about")
def about():
    return render_template("about.html")

@app.route("/solution")
def solution():
    return render_template("solution.html")

@app.route("/contact")
def contact():
    return render_template("contact.html")

@app.route("/process")
def process():
    return render_template("process.html")
```

PROJECT 03

Research Papers

- **AI for intelligent Cybersecurity**

The cybersecurity computing process can be made more automated and intelligent than traditional security systems by using security intelligence modelling based on such AI techniques

- **Review on Blockchain Voting Systems**

The study in this paper uses blockchain technology to offer a systematic mapping analysis that compiles the most recent e-voting research.

Review on Blockchain Voting Systems

Ravi Verma^{1,a)}, Saksham Gupta^{1,b)}, Vedanshu Sharma^{1,c)}, Shubhi Tripathi^{1,d)}

April 2023

¹School of Computing Science Engineering, VIT University, Bhopal, India

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^{b)}saksham.gupta@vitbhopal.ac.in

^{c)}vedanshu.sharma2020@vitbhopal.ac.in

^{d)}shubhi.tripathi2020@vitbhopal.ac.in

1 Abstract

Creating an electronic voting system that is secure, fair, and private while also being transparent and flexible has been a difficult challenge. This work-in-progress paper explores the use of blockchain technology as a service to develop a distributed electronic voting system. The paper proposes a new e-voting system that overcomes the limitations of existing systems and evaluates various blockchain frameworks for constructing it. The potential of distributed ledger technologies is analyzed through a case study of a national election process, where a blockchain-based application is implemented to enhance security and reduce costs.

Index Terms: blockchain-based electronic voting; blockchain technology; electronic voting; privacy; security; trust; voting.

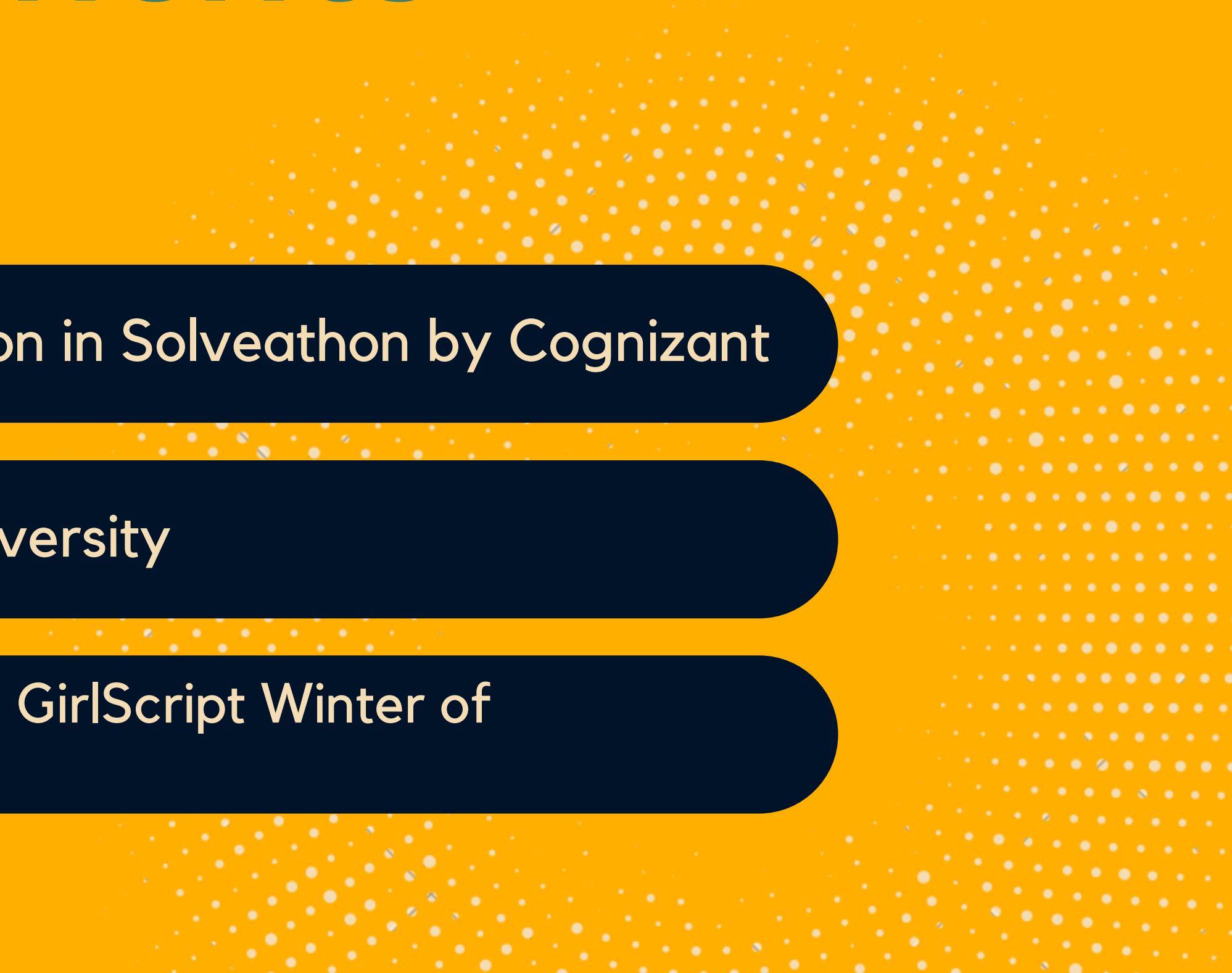
2 Literature survey

Elections must use lawful, accurate, safe, and convenient electronic voting technology. But potential issues with electronic voting methods might prevent widespread implementation. Due to the benefits of end-to-end verification, blockchain technology was developed to address these problems. It provides decentralised nodes for electronic voting and is utilised to create electronic voting systems. [5]

Kashif Mehboob Khan¹ et.al in offered a method for utilising the transparency and cryptographic underpinnings of the blockchain to build an efficient voting process. The suggested system achieves end-to-end verifiability and complies with the key criteria for e-voting schemes. The planned electronic voting system was described in full, along with how it would be implemented using the Multichain platform. The study provided a thorough analysis of the system, effectively demonstrating its ability to produce an end-to-end verifiable e-voting system.



Achievements



- 1 Certificate of Appreciation in Solveathon by Cognizant
- 2 Top 20 for ProDigi in University
- 3 Open Source Contributor - GirlScript Winter of Contributing



Responsibilities

- 1 Core Member, GeeksforGeeks Club(Technical Club)
 - 2 Core Member, CodeChef Club(Technical Club)
 - 3 Media Head - Team GARVIT
- 



THE SPARKS FOUNDATION



THIS IS PRESENTED TO

PRANAV DUBEY
DIRECTOR

08/25/2021

DATE



CODE : NLJERNTDUG

Verify at:

<https://truecertificates.com/verification>



TWOWAITS

Enabling Learning

Certificate ID : CMI_080906

CERTIFICATE OF APPRECIATION

To whomsoever it may concern

This is to certify that **Saksham Gupta** has completed his internship for 1 month as "*Community Manager Intern*" at Twowaits Technologies Pvt. Ltd. from 23rd Aug 2021 to 22nd Sep 2021.

During the internship he has demonstrated good understanding with a self motivated attitude to learn new things. His performance was good and was able to complete the tasks successfully on time.

I wish him all the best for his future endeavours.

Sincerely,

Achintya Gaumat

Founder & Chief Mentor, Twowaits

Contact : 9456056603

TwoWaits Technologies Pvt. Ltd.

Address : Plot No. 5, Knowledge Park 2 Greater Noida, UP (IN)

Email : community_manager@twowaits.com

Website : www.twowaits.in



Cognizant



CERTIFICATE OF APPRECIATION

THIS IS TO CERTIFY THAT

SAKSHAM GUPTA [CHILLER]

FROM VIT BHOPAL

led a meaningful engagement and successful completion of the idea challenge by submitting an innovation proposal as part of SOLVEATHON during September 2021 conducted with the aim to bring out youth innovation in tackling covid-19 problems

Padmasini Dayananda
Cognizant

Abhishek Gupta
YuWaah

Dhuwarakha Sriram
UNICEF



COURSE
CERTIFICATE



Aug 20, 2021

Saksham Gupta

has successfully completed

Introduction to HTML5

an online non-credit course authorized by University of Michigan and offered through Coursera

Colleen van Lent Charles

Colleen van Lent, Ph.D.
Lecturer
School of Information, University of Michigan

Charles Severance
Clinical Professor, School of Information
University of Michigan

Verify at:

<https://coursera.org/verify/6YCBL8VLYPV4>

Coursera has confirmed the identity of this individual and their participation in the course.

Microsoft Certified

Security, Compliance, and Identity Fundamentals

Saksham Gupta

has successfully completed the requirements of

Security, Compliance, and Identity Fundamentals

Date Issued: June 2, 2023



A handwritten signature in black ink that appears to read "N. Nadella".

Satya Nadella
Chief Executive Officer



[verify.certiport.com: 9Beh-s4YL](https://verify.certiport.com/9Beh-s4YL)



7 Courses

Foundations of User Experience (UX) Design

Start the UX Design Process: Empathize, Define, and Ideate

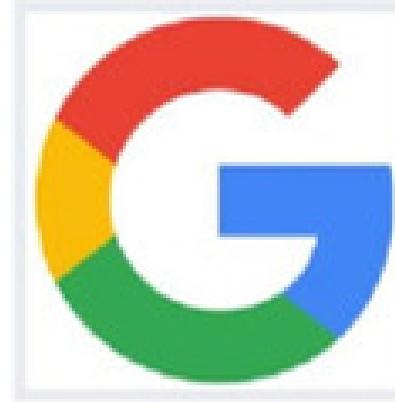
Build Wireframes and Low-Fidelity Prototypes

Conduct UX Research and Test Early Concepts

Create High-Fidelity Designs and Prototypes in Figma

Build Dynamic User Interfaces (UI) for Websites

Design a User Experience for Social Good & Prepare for Jobs



Jan 25, 2023

Saksham Gupta

has successfully completed the online, non-credit Professional Certificate

Amanda Brophy
Global Director of
Google Career
Certificates

Google UX Design

Those who earn the Google UX Design Professional Certificate have completed seven courses, developed by Google, that include hands-on, practice-based assessments and are designed to prepare them for introductory-level roles in UX design. They can complete the design process from beginning to end: empathizing with users, defining their pain points, coming up with ideas for design solutions, creating wireframes and prototypes, and testing designs to get feedback.

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Verify this certificate at:

<https://coursera.org/verify/professional-cert/NE2ZLAGYK1ME>

THANK YOU

