**CERTIFICATE VERIFICATION (Team-6)**

**UseCase :** Implement a verification system for authenticity checks of issued certificates and IDs. Utilize Python libraries**.** Ensure a secure and tamper-proof verification process to maintain trust and credibility.

**Group Members :** Mohit, Shivam, Geethu

**Implementation Strategy**

**Proposing Method:**

We offer two proposed methods: AI models and the SHA algorithm implemented using Python. Through careful analysis, we will address the limitations of each method and select the most suitable one for implementation.

**Hosting Tool:**

Streamlit

**Website Interface Features:**

**1)Home page**

On the homepage, we extend a warm welcome and provide an overview of our system's purpose and features. We offer concise yet comprehensive guidance on how to effortlessly verify certificates using our platform, ensuring a user-friendly experience.

**2)Certificate Upload**

This section allows users to upload a certificate file or enter certificate details manually. Additionally, users have the flexibility to upload various image and file formats of the certificate, including QR codes, to facilitate verification if provided.

**3)AI Verification Method**

Presenting the outcome of AI-driven verification, indicating whether the certificate is deemed authentic or fraudulent. Furthermore, furnishing supplementary information such as confidence scores or probabilities to enhance transparency.

(An alternative verification option involves utilizing the SHA Algorithm.)

**4)QR Code Verification**

Upon successful AI verification of the certificate, users are prompted to scan the QR code. Subsequently, the system extracts the information from the QR code and cross-references it with the uploaded certificate data for validation.

**5)Verification Status**

The ultimate verification status reveals whether the certificate is deemed authentic or not. Additionally, users receive supplementary information or instructions tailored to the specific verification outcome.

**6)Feedback & Support**

We offer users the opportunity to share feedback regarding their verification experience. Additionally, we provide contact information and support resources for any assistance or inquiries users may have.