

Team Details & Problem Statement



SMART INDIA
HACKATHON
2024

Ministry/ Organization	Ministry of Electronics and Information Technology
PS Code	SIH 1668
Problem Statement Title	Creating an application to identify the presence of government issued personally identifiable information (PII) embedded in documents and data, inadvertently or otherwise.
Team Name	Code Brewers
Team Leader Name	Prathamesh Bhaskar
Institute Name (AISHE)	Vishwakarma Institute of Information Technology, Pune
Theme Name	Blockchain and Cybersecurity

Only Aadhaar number is sufficient to steal money from your bank account: Know about THIS new scam

Hackers are now stealing money from bank accounts without calling or sending messages to anyone. They have exploited a government-provided facility.

Written By: Om Gupta
New Delhi
Published on: July 17, 2024 13:17 IST



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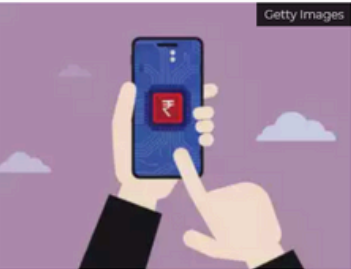
This new Aadhaar-related banking fraud is on the rise; why you need to lock your Aadhaar biometrics now

By Sneha Kulkarni, ET Online • Last Updated: Oct 20, 2023, 12:51:00 PM IST

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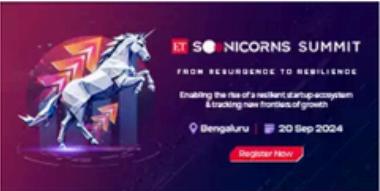
Synopsis

According to the forum, banks are directly responsible for this fiasco, which has led to thousands of innocent depositors lose their hard earned savings through frauds using the AEPS.



Getty Images

The [Aadhaar-enabled Payment System \(AePS\)](#) in India is recently facing an exploitation by cybercriminals, leading to number of depositors losing their hard earned savings through these frauds. This was observed by civil society platform, Bank Bachao Desh Bachao Manch, in its



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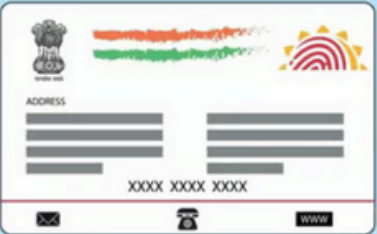
Is Your Bank Account At Risk If Someone Knows Your Aadhaar Number?

Hackers cannot access your bank account by knowing only your Aadhaar number, but you could fall victim to a cyber scam or identity theft if you do not log out and delete every downloaded copy of your Aadhaar in a public computer



Neelanjit Das

Updated on: 7 October 2022 8:23 am



PERSONAL FINANCE

Can someone hack your bank account with just your Aadhaar number?

Can Aadhaar number lead to bank account hacking? Experts address security concerns and solutions.



DNA Web Team

Updated : Aug 27, 2023, 07:41 PM IST | Edited by : Raunak Jain



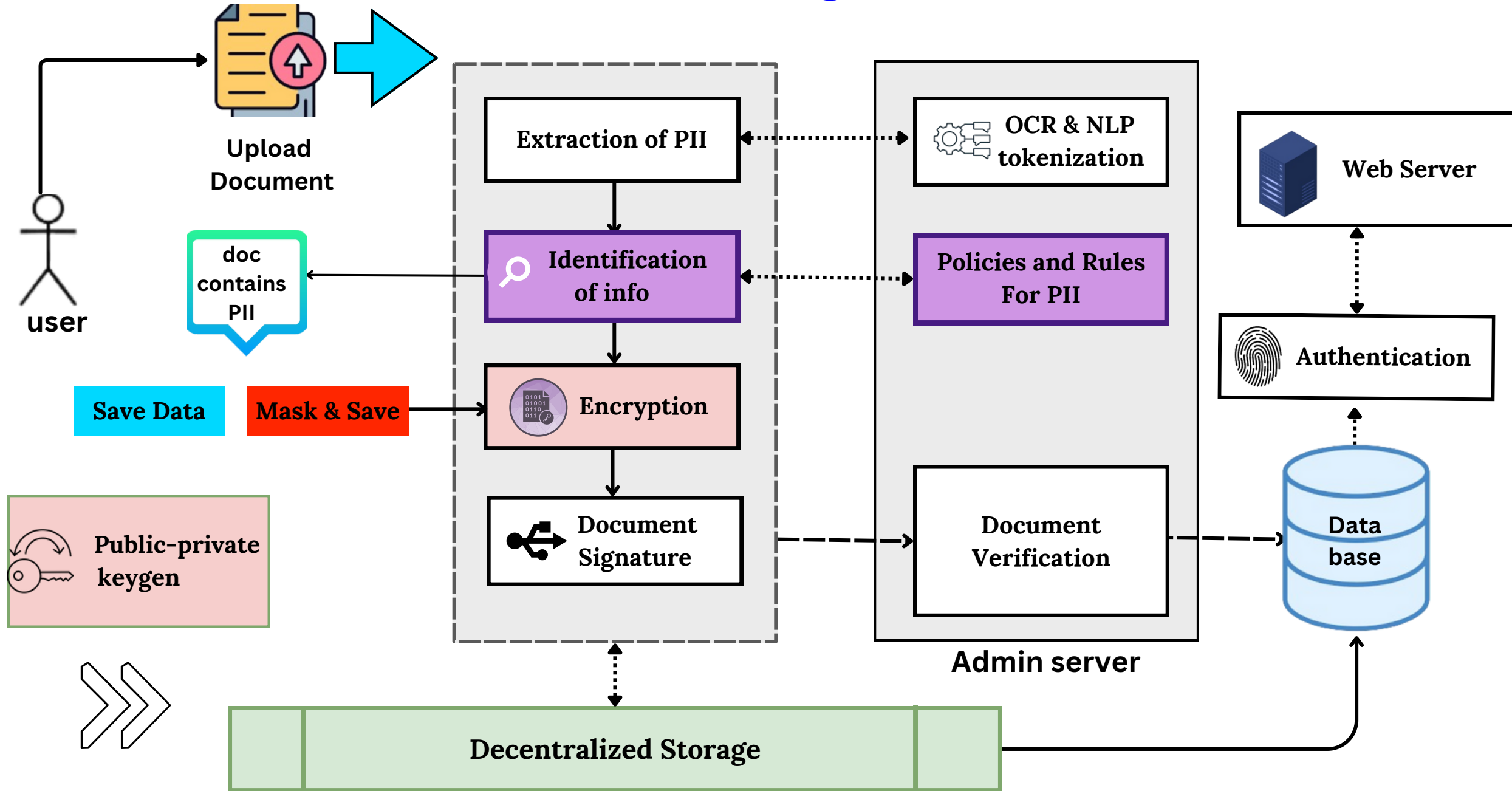
Idea & Approach

In a rapidly digitalizing world, every day, people upload sensitive government-issued documents like **Aadhaar cards, PAN cards, and Driving Licenses** online. These documents contain personally identifiable information (PII) such as names, addresses, and financial details, making users vulnerable to identity theft and fraud.

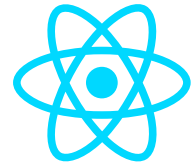
We are addressing the problem by developing a user-friendly and multilingual web application called "**SafeData**". A cutting-edge application that detects and protects personally identifiable information (PII). Using advanced pattern matching, OCR (Optical Character Recognition), and NLP, our application automatically identifies PII in uploaded documents. When sensitive data is detected, users are alerted and given options to redact, mask, or remove it with a click. It also contains **robust encryption, access controls, and audit logs** to ensure compliance with data protection regulations.



Use Case Diagram



Technology Stack



React JS



Firebase



Blockchain



Web3.js



OCR API



**Data
Masking/
Redaction
API**

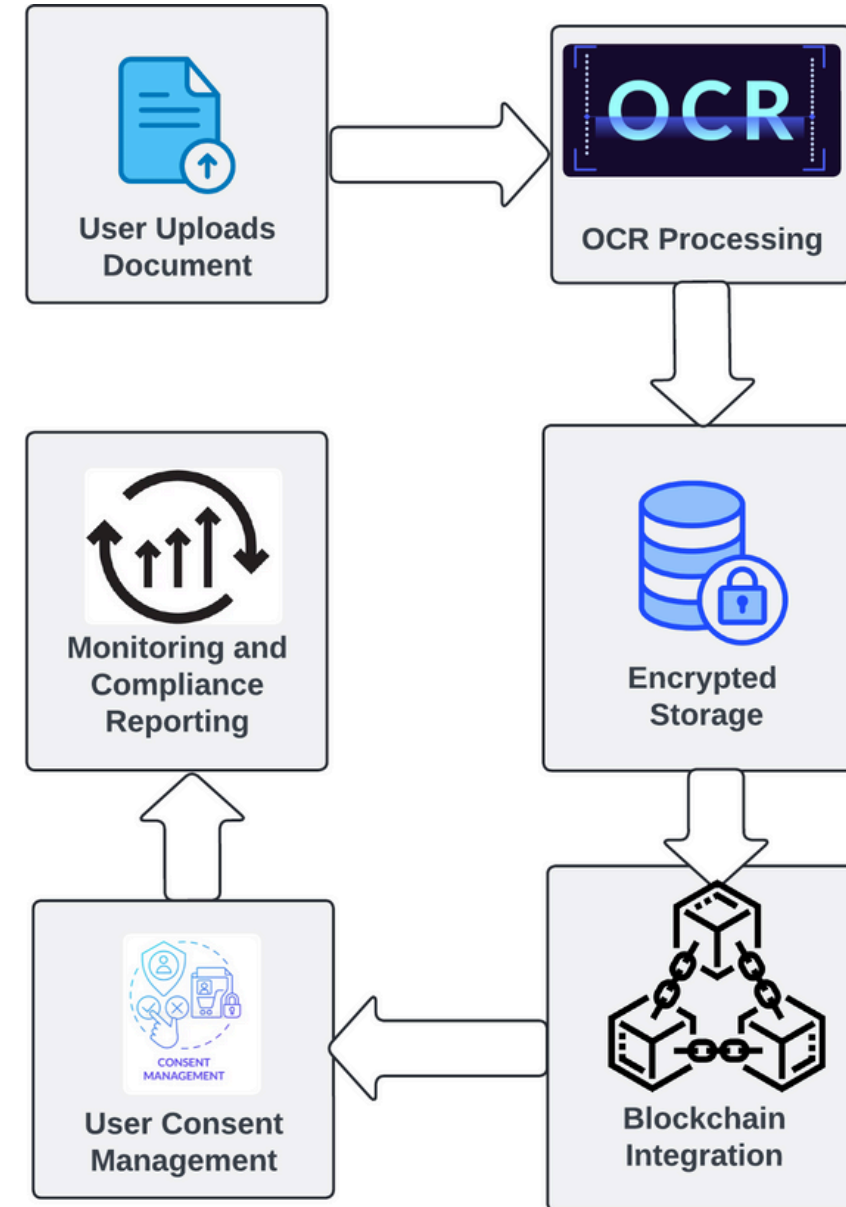


**Database
Firebase**

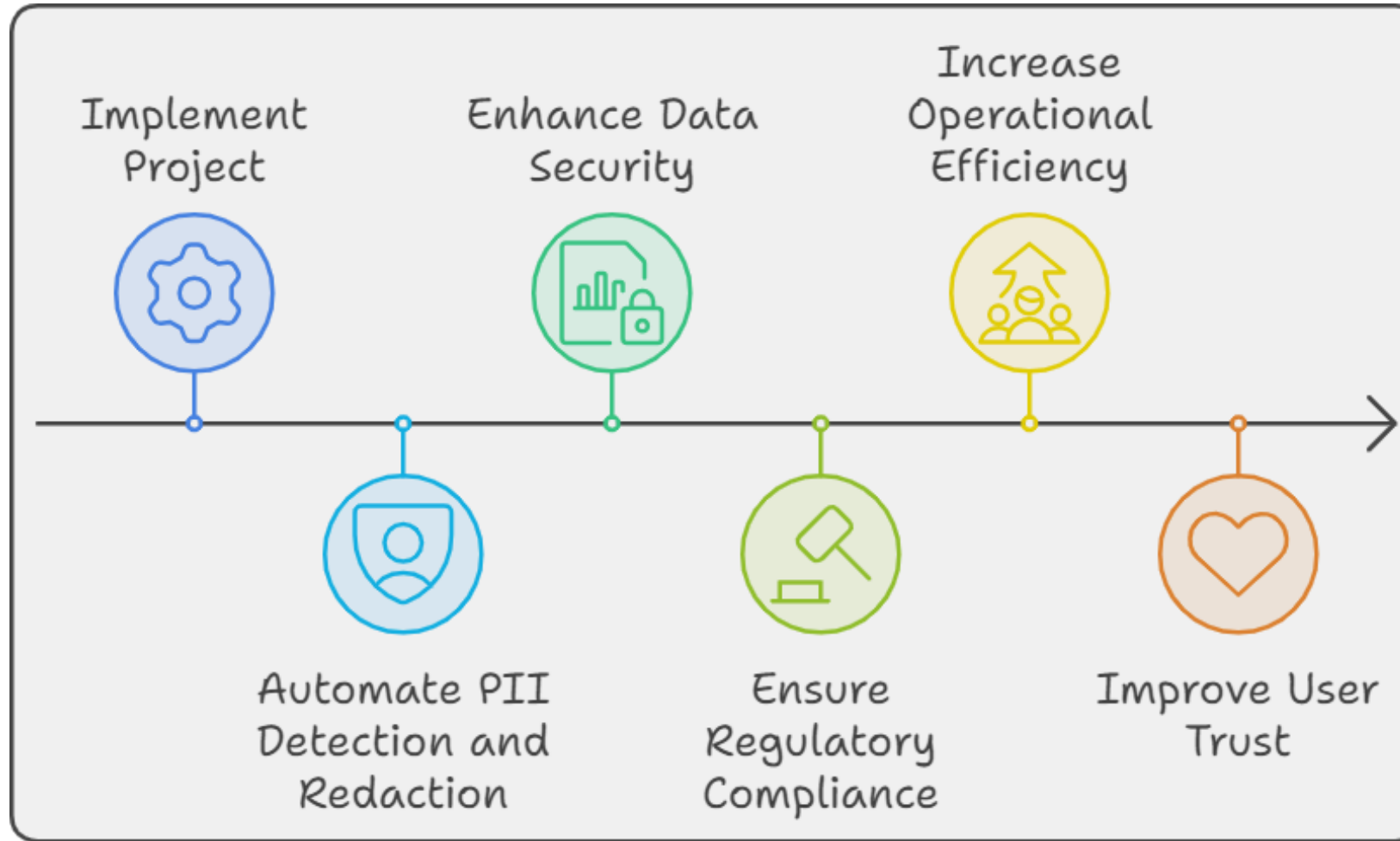


MongoDB

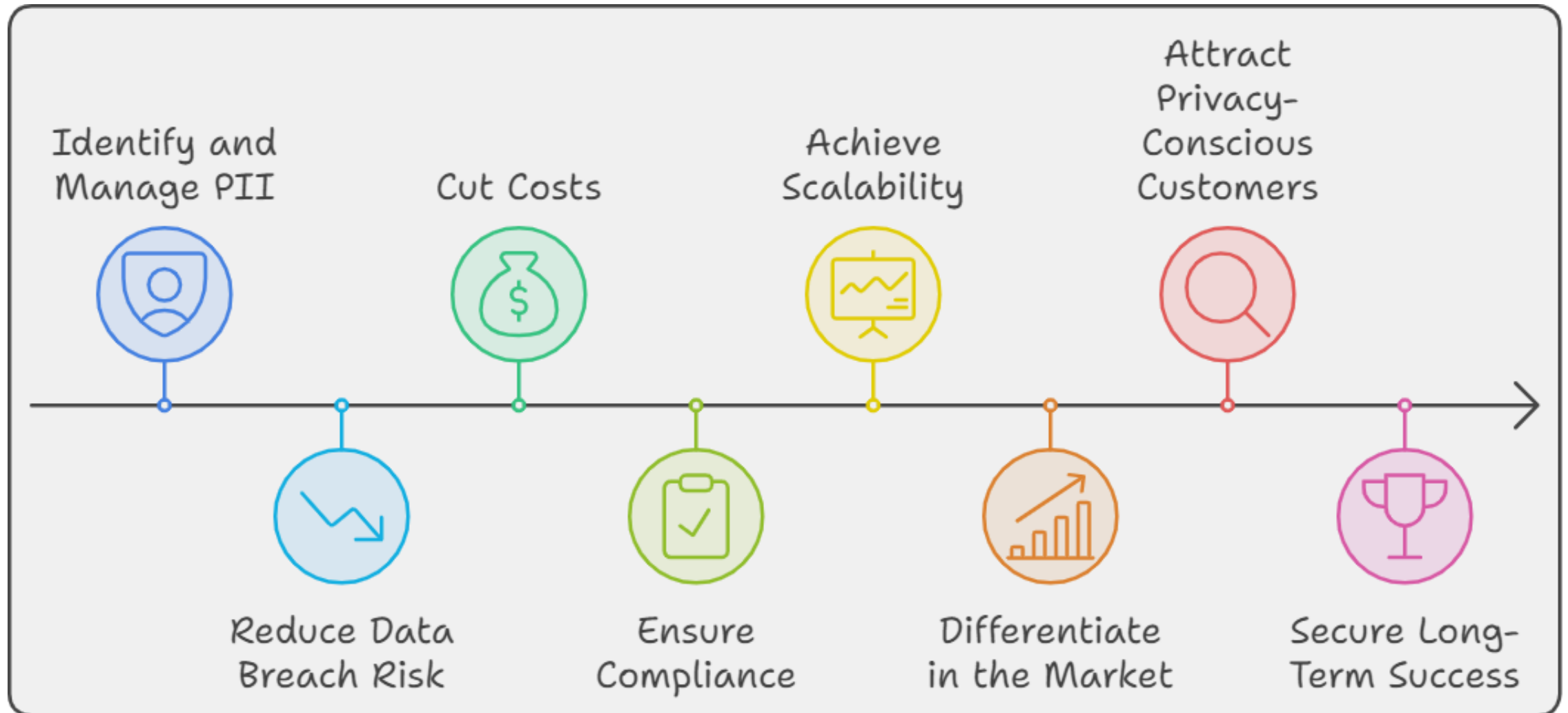
Process Flow



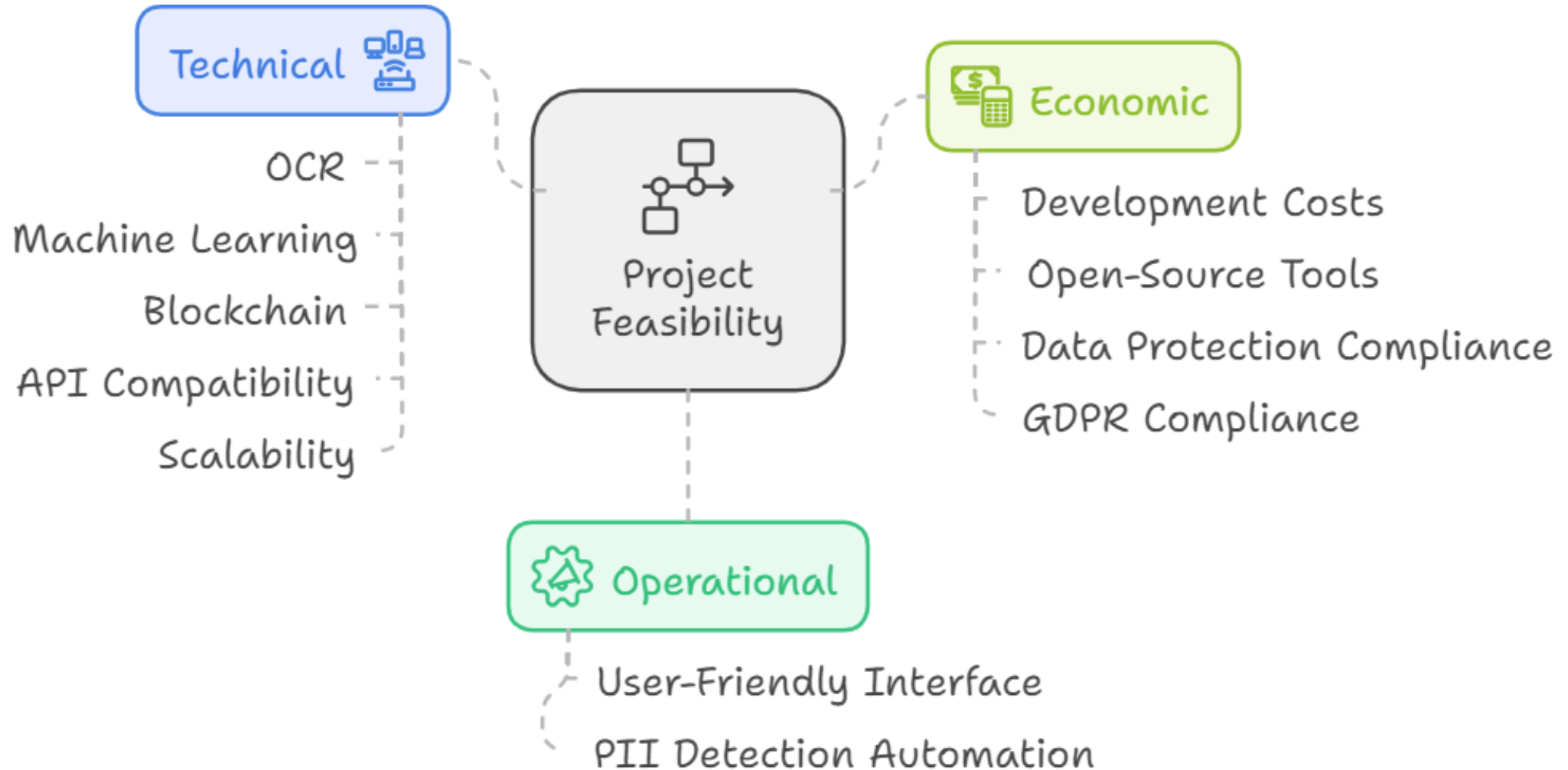
Impacts



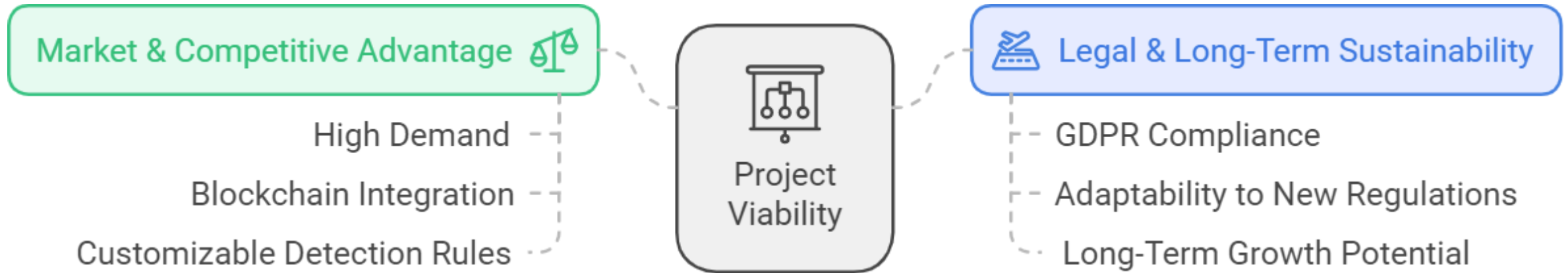
Benefits



Feasibility



Viability



Additional Features



PII Risk Scoring

Implement a risk scoring system that evaluates the sensitivity of detected PII and provides a risk level (low, medium, high) for each document or data set.



Customizable PII Detection Rules

Description: Allow users or administrators to define and customize rules for detecting specific types of PII based on organizational needs or regulatory requirements.



Audit Trail and Logging

Record all actions taken on documents containing PII, including detection, redaction, and access, in a secure, tamper-proof audit trail.



Automated PII Anonymization

Implement algorithms that automatically anonymize PII data (e.g., hashing, pseudonymization) while retaining data usability for analytics or processing.



Real-Time PII Monitoring and Alerts

Continuously monitor incoming documents or data streams for PII and provide real-time alerts to administrators or users when PII is detected.



User Consent Management

Implement a system for tracking and managing user consent related to the storage and processing of their PII, with options to view, modify, or withdraw consent.

Team Members Details

Team Leader : Prathamesh Bhaskar

Team Member 1: Eshwar Bhore

Team Member 2: Sarthak Gaikwad

Team Member 3: Vaibhavsingh Thakur

Team Member 4: Aparna Rajmane

Team Member 5: Saurabh Kale