

The Legal Knowledge Gap: A Problem Statement

Accessing legal knowledge can be time-consuming and inefficient. Lawyers spend a lot of time searching for information. This inefficiency can lead to errors and increased costs. Existing databases lack the search capabilities to find key insights. Manual review of court judgments is a bottleneck.

Team :- Byte Me



CASEFLOW

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Introducing Caseflow: A Modern Solution

User-Friendly App

Caseflow provides a seamless way to access digitalized case files.

Uploading Documents

Allows authorities to upload case files.

Advanced Search

Allows you to search based on keywords.

AI-Based Chatbot

Provides advices and supports the user.

Viewing Case details

The summary will be provided.

Text Stack

1 Flutter

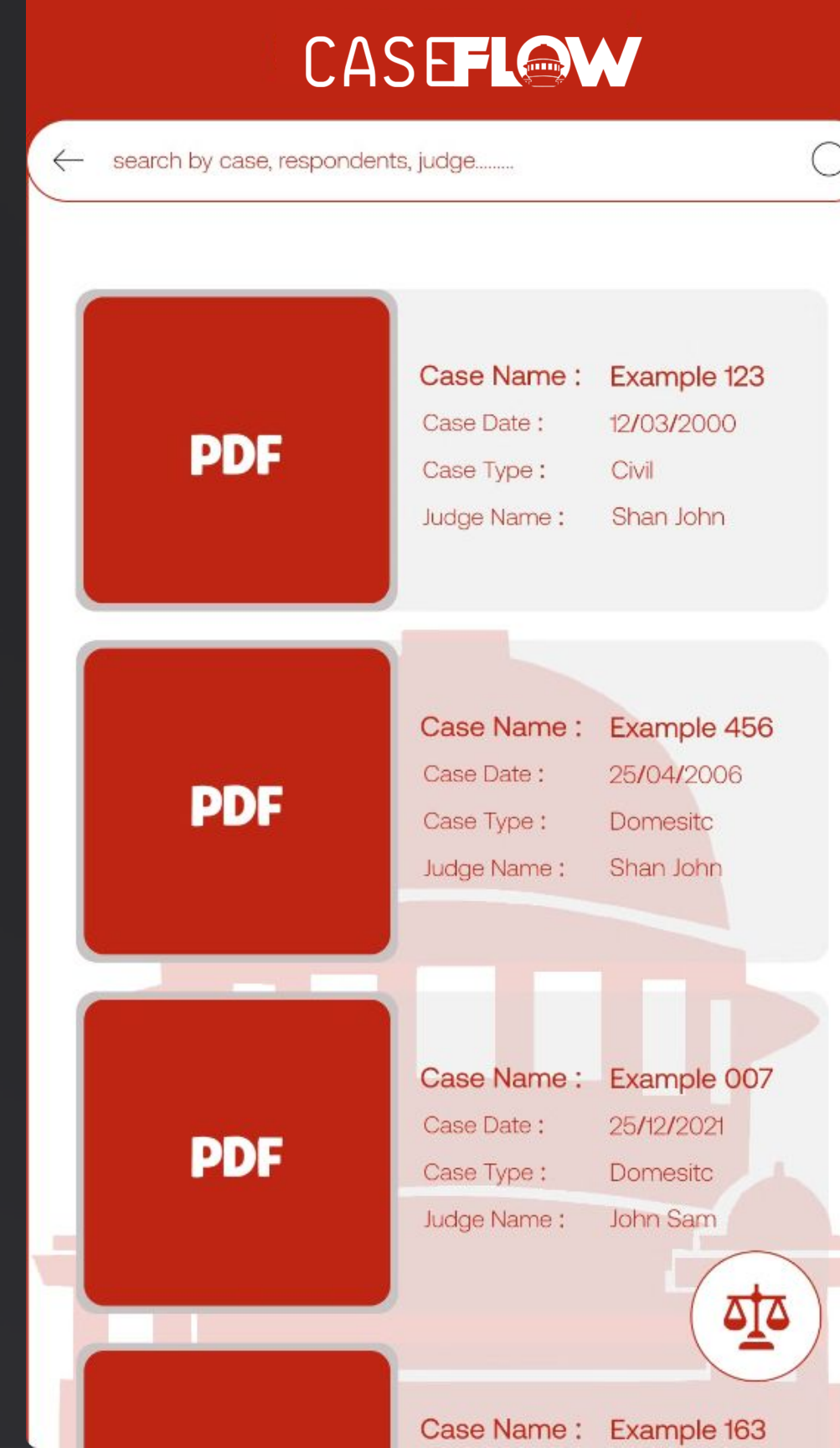
Flutter helps in building **Caseflow** by providing a **cross-platform**, fast, and visually rich UI framework. It enables seamless development for **mobile, web, and desktop** from a **single codebase**, ensuring a smooth user experience. With **Firebase integration**, it supports **real-time search**, **secure authentication**, and **cloud storage** for judgments.

2 Digitizes Court Judgments: Pdf to image

(OCR) (Optical Character Recognition) **converts PDFs to images** and then **extracts text from images**, making court judgments **searchable and editable**. This enables **automated indexing, filtering, and analysis** for efficient legal research.

3 Backend Database

Database powers **CaseFlow** by providing **real-time storage and authentication** for managing court judgments efficiently. It enables **secure document uploads, fast search, and chatbot integration**, ensuring a seamless legal research experience.



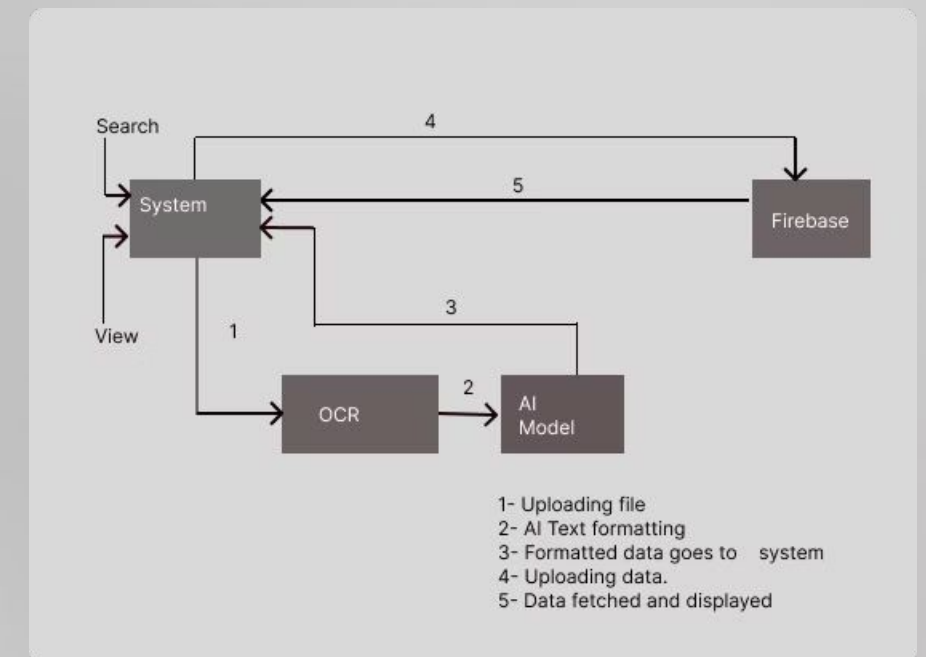
Working

Admin Interface

- Home Screen - The admin logs into the application
- Upload files- The admin can upload case files into the application.
- Case details - The main details like case name , case date , case type and judge's name will be displayed.
- Search - The admin can search using keywords.
- AI Chatbot - Can chat with the AI assistant regarding any case or ask for opinions.

User Interface

- Home Screen - The user can log into their account.
- View Case Details - The user can view details of uploaded case files.
- Search - The user can search using keywords.
- AI Chatbot - Can chat with the AI assistant regarding any case or ask for opinions.



AI Chatbot

1 AI Legal Assistant

Provides instant answers from court judgments.

2 Retrieves Relevant Cases

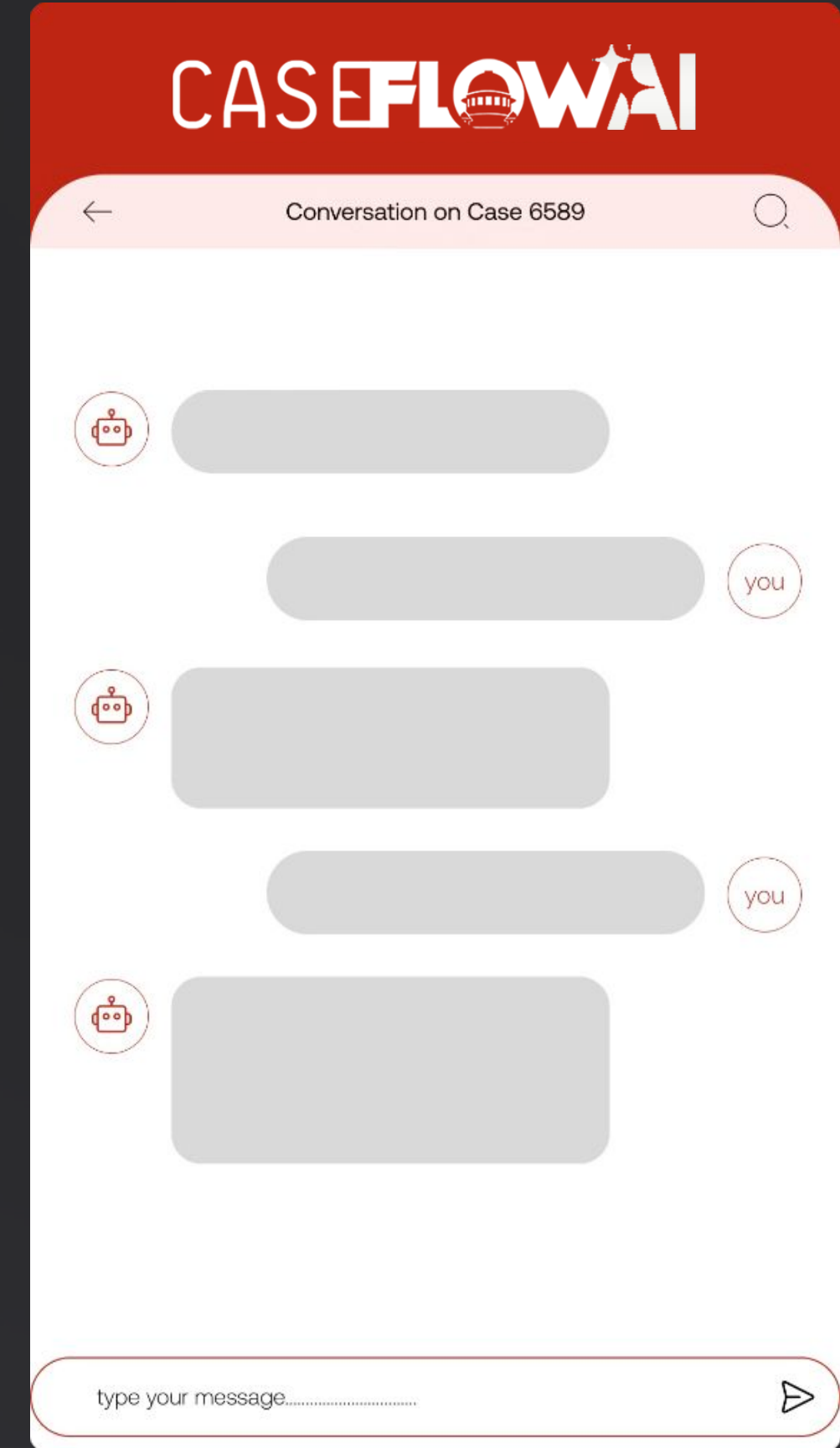
Uses semantic search to find key judgments.

3 Summarizes

Judgments
Condenses legal texts into easy summaries.

4 Understands

Language
Converts legal questions in plain language.



Fine Payment Gateway

1

Online Fine Payment

Pay court fines, penalties, and legal dues digitally.

2

Real-time Status Updates

Instant payment confirmation & SMS/email alerts.

3

Secure Transactions

OTP verification & encrypted payments ensure safety.

4

Downloadable Receipts

Users can download & print payment receipts.



PAYMENT GATEWAY

Case & Court Details

CASE NUMBER

2023/CR/1256

COURT NAME

Delhi High Court

Petitioner/Defendant Name

Ramesh Kumar vs. State of Delhi

Advocate Name

Adv. Suresh Mehta

Case Type

Criminal Case

Filing Year

2023

Payment Details

Fee Type

e.g., court fee, fine, penalty, stamp duty

Amount

Court Live Streaming

1

Real-time Court Streaming

Live coverage of proceedings for public access.

2

Multiple Access Modes

View on official websites, mobile apps, and YouTube.

3

High-Quality Video & Audio

Clear streaming for better understanding.

4

Recorded Sessions

Archived videos for educational and legal reference.



ENGLISH

विधि और न्याय
मंत्रालय, भारत सरकार

MINISTRY OF LAW AND JUSTICE,
GOVERNMENT OF INDIA



न्याय विभाग
DEPARTMENT OF JUSTICE



[Home](#) > Live Streaming of Court Cases



Live Streaming of Court Cases

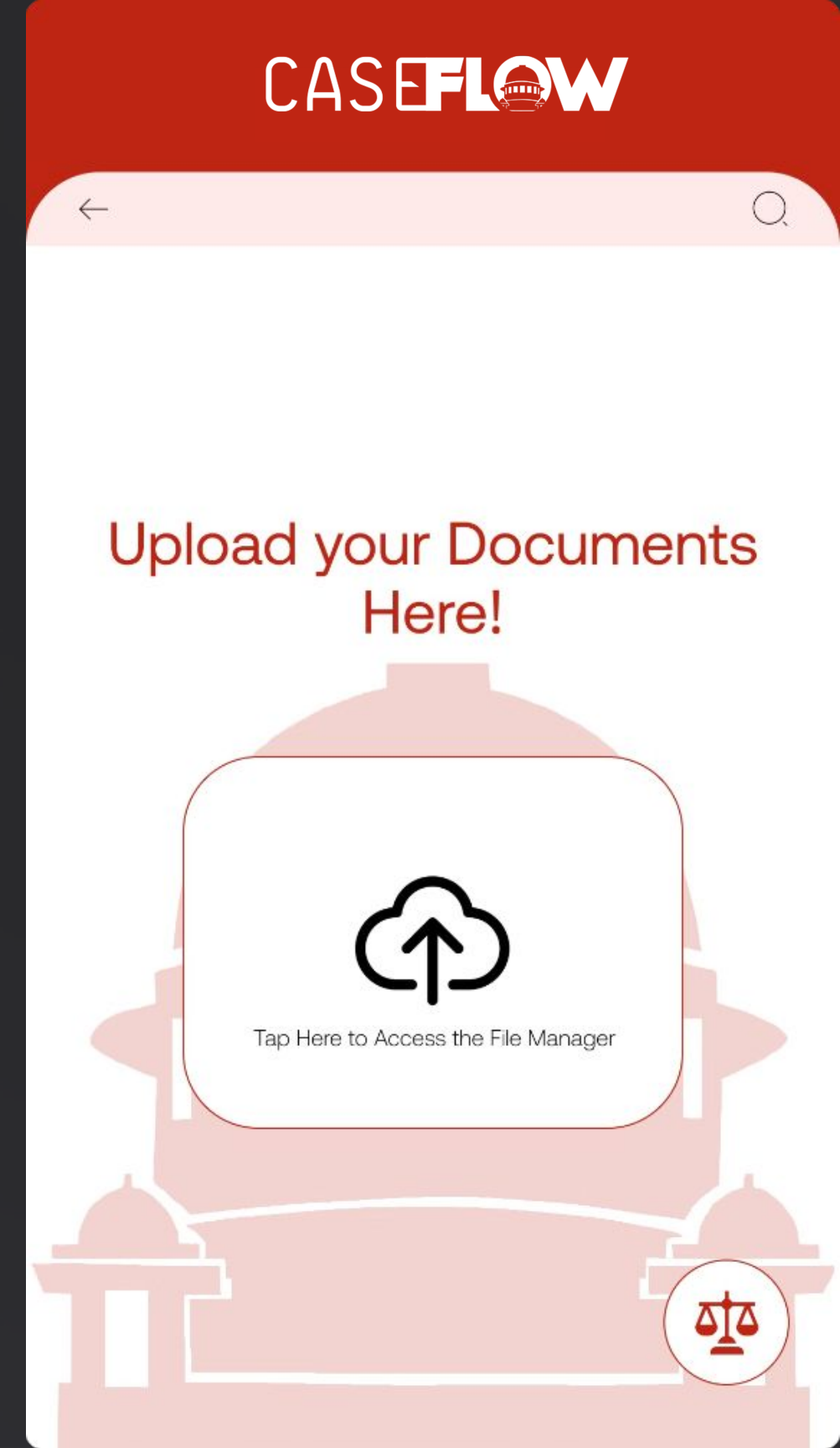
- Supreme Court of India

High Courts

- Gujarat High Court
- Gauhati High Court
- Jharkhand High Court
- Karnataka High Court
- Madhya Pradesh High Court
- Orissa High Court
- Patna High Court

Algorithms and Techniques

- **OCR (Optical Character Recognition)** – Extracts text from court documents (Tesseract, Google ML Kit).
- **NLP for Search & Chatbot** – Uses NER, TF-IDF, BERT, and RAG for accurate retrieval.
- **Fuzzy Search** – Typo errors corrected and best results provided
- **Scalable Storage** – Firebase for structured legal data



Future Enhancements



Viewable FIR Reports
and collaboration with
government.

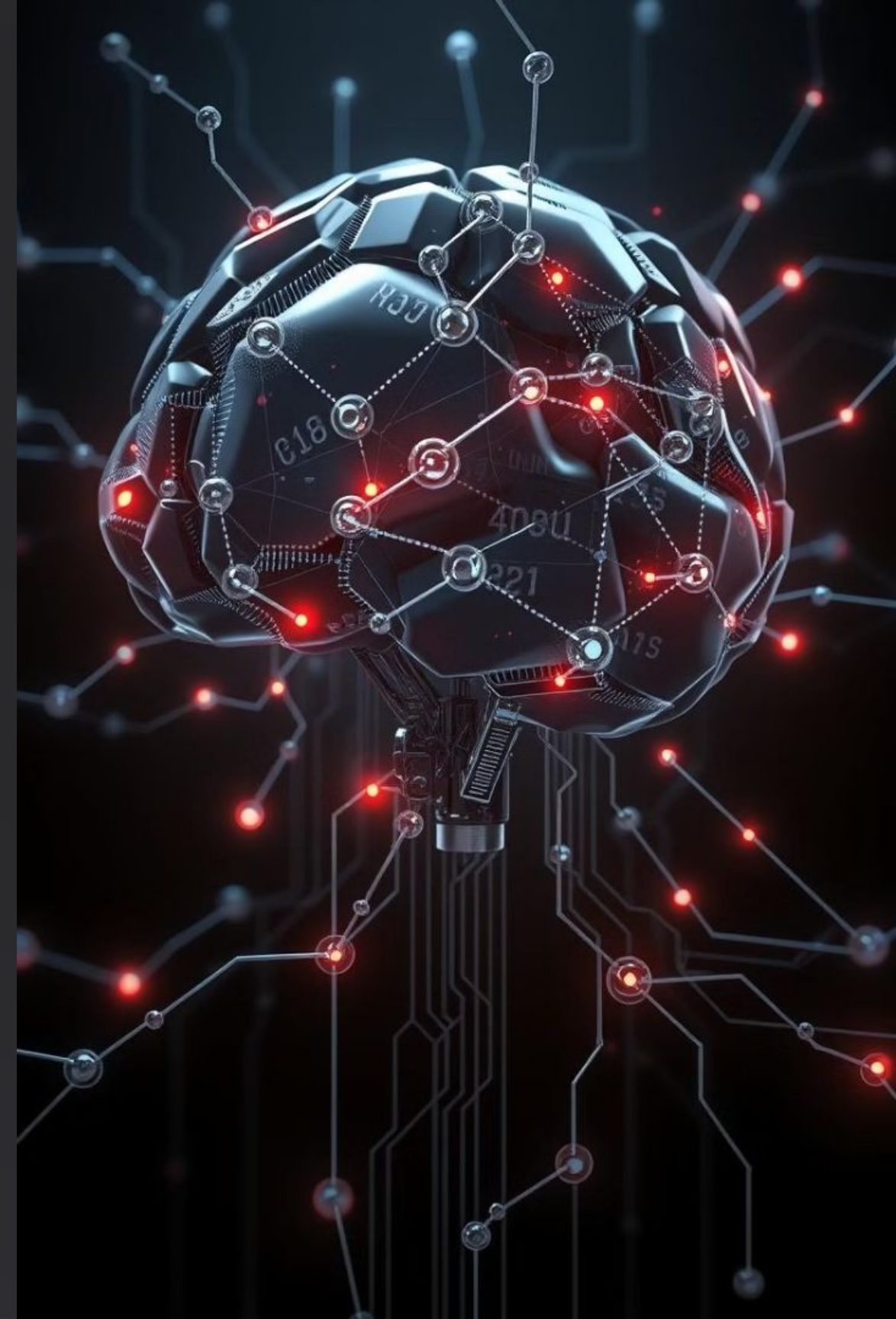


Data Visualization.



AI Psychologist
Model.

Visualize data to explore similar pattern cases. An AI-based psychologist model will try to understand criminals' psychology and their motives.



Thank you

TEAM BYTE ME

Team Members : Shan John

Catharine Elza Shibu

Thejas Denni