



# Court Case Backlog Prioritiser

Transforming India's judicial system through intelligent case prioritisation



# The Crisis: 50 Million Pending Cases

India's judicial system faces an unprecedented backlog affecting every segment of society.

## Citizens

Undertrials remain in jail for years without judgement, denied their fundamental right to speedy justice.

## Families

Property and inheritance disputes drag on for decades, causing emotional and financial strain.

## Businesses

Commercial disputes slow down ease of doing business and discourage investment in the economy.

# The Problem with Current Systems

Despite digital initiatives like eCourts and the National Judicial Data Grid (NJDG), the system lacks a data-driven mechanism to decide which cases should be fast-tracked.

Most cases are processed in **chronological order**, ignoring case complexity, urgency, or societal impact.

This creates systemic inefficiency and denial of timely justice, making backlog reduction one of India's most critical governance challenges.

1,445

Days

Average time to resolve commercial disputes  
in India

50M+

Cases

Pending across all courts nationwide



# Our Solution

A decision-support tool that helps the judiciary prioritise cases intelligently through machine learning and data analysis.

# How It Works

By analysing case metadata and applying machine learning, the system delivers intelligent prioritisation.



## Predict Duration

Forecast case complexity and expected timeline



## Rank by Urgency

Assess societal impact and time sensitivity



## Recommend Scheduling

Optimise court calendars for judges and administrators

# Key Components

01

## Data Ingestion

Sources from NJDG and court records. Cleans and standardises judicial datasets for analysis.

02

## Feature Engineering

Analyses case type, age, pendency period, judge history, and current status to build comprehensive profiles.

03

## ML Prediction Engine

Predicts case duration and complexity level. Identifies long-pending and high-impact cases requiring attention.

04

## Prioritisation Engine

Generates ranked lists weighing societal impact, urgency, and fairness for optimal case scheduling.

05

## Dashboard

Visual overview of backlog with top 100 urgent cases flagged and judge allocation insights.

# Real Impact Across Stakeholders

## Judiciary

- Optimises case scheduling and resource allocation
- Provides insights into judge allocation patterns
- Reduces systemic overload and burnout

## Citizens

- Faster justice for undertrials and vulnerable groups
- Priority for women/child protection cases
- Improves faith and trust in the judicial system

## Nation

- Reduces overall judicial backlog significantly
- Improves Ease of Doing Business rankings
- Strengthens rule of law for governance and growth



# Evidence & Validation

## Scale of Problem

NJDG confirms **50M+ pending cases** as of 2023 across district courts, High Courts, and Supreme Court.

## Commercial Delays

World Bank reports commercial disputes take an average of **1,445 days (~4 years)** to resolve in India.

## Potential Impact

Studies show prioritising even **10% of longest cases** could reduce backlog years significantly and release thousands of undertrials faster.

**Prototype Validation:** Open datasets used for modelling. ML model successfully classifies high-duration vs low-duration cases. Dashboard demonstrates prioritisation recommendations proving technical feasibility.





# Scalability & Integration

The Court Case Backlog Prioritiser is designed for nationwide implementation and seamless integration.

1

## District Courts

Initial deployment at district level handling majority of pending cases

2

## High Courts

Expansion to state High Courts for appellate case management

3

## Supreme Court

Integration at apex court level for constitutional matters

4

## National eCourts

Full integration with National eCourts Mission infrastructure

# Revolutionising Justice Delivery

The Court Case Backlog Prioritiser directly addresses one of India's most pressing governance challenges.



## Reduce Backlog

Systematically decrease the 50M+ pending cases through intelligent prioritisation



## Deliver Justice Faster

Ensure timely resolution for urgent and high-impact cases



## Transform Efficiency

Scale judicial system efficiency across the nation

This approach can revolutionise case management in India and serve as a model for judicial systems worldwide.

