

# Automatic Legal Judgment Prediction Via Large Amounts of Criminal Cases Using Blockchain Technology

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**Abstract-** Blockchain has emerged as a promising technology to ensure trust between parties. By using this technology, we can establish a secure communication paradigm, where data integrity and immutability can be guaranteed. These inherited features underline blockchain as a suitable technology to Predicting court judgment has gained growing attention over the past years. Prior attempts used traditional prediction techniques, where the order of words is discarded, resulting in low accuracy. In this system, we propose a prediction model of criminal cases from Supreme Court using End-to-End Block chain technology. Our model imitates a process of legal interpretation, whereby recurrent neural networks read the fact from an input case and compare them against relevant legal provisions with the attention mechanism. The model's output shows if a person is guilty of a crime according to the fact and laws. After the performance test, we find that our model could yield the higher than traditional text classification techniques including BlockchainTechnology. It features the text of fact expertly extracted from each judgment, textual provisions from Criminal Code, and binary-format labels following the theoretical criminal law structure. This dataset is useful for achieving judgment predicting task together with emulating actual criminal case trial.

**Keywords-** Block Chain Technology, Prediction, Feature, Classification

## I. INTRODUCTION

With the rapid development of Block chain technology, automatic judgment of legal cases based on artificial intelligence has become an important research issue. On the one hand, automatic judgment of legal cases can greatly reduce the workload of lawyers and judges. On the other hand, it is available for other participator in the cases, who are not professional in the law. There are some challenges in automatic legal judgment.

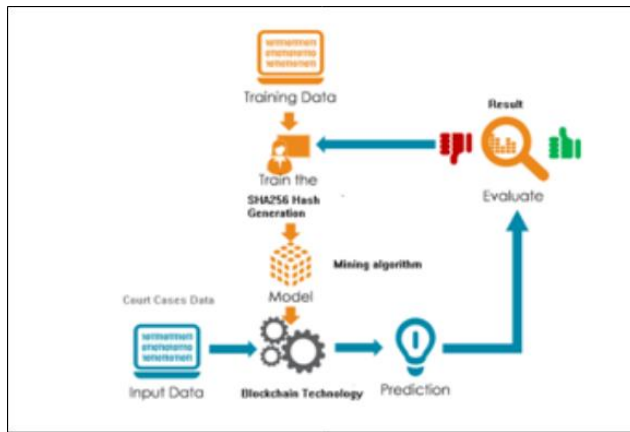
The materials of criminal cases not only contain lots of information such as time, place, parties, and description, but

also are often quite long. It is difficult for machines to handle long distance dependency, and pay attention on most important information. "Justice delayed is justice denied" and this delaying of justice is a great bane for the Indian justice system. Every year, illimitable cases remain pending just for the final hearing of judicial verdict. Years pass-by keeping the plaintiff waiting for justice. For years, this is a major issue faced in the Indian judicial system. In this system, authors have attempted to condense the problem by decreasing the number of cases before it reaches the Court. This is done by extending help to the legal professionals to predict a case output from previous records. This system focuses on cases related to 'Dowry Death' i.e. IPC section 498A and 304B. It aims to deliver justice by predicting judicial argument-based analysis using the navel algorithm to find its accuracy.

## II. METHODOLOGY

Since there are growing concerns regarding online privacy, firms may have the risk of being involved in various privacy infringement cases resulting in legal cauations.

If firms are aware of consequences from possible cases of invasion of online privacy, they can more actively prevent future online privacy infringements. Thus, this study attempts to predict the probability of judgment types caused by various invasions within court cases that are related to online privacy invasions. Since legal judgment results are significantly influenced by societal factors and technological development, this study tries to identify a model that can accurately predict legal judgment with explain ability. To archive the study objective, it compares the prediction performance by applying blockchain technology algorithms.



It's the foremost preliminary step for proceeding with any research work writing. While doing this go through a complete thought process of your Journal subject and research for its viability by following means:

### Hash Generation:

### Mining Algorithm for valid hash creation:

**Input:** Hash Validation Policy  $P[]$ , Current Hash Values  $hashVal$

**Output:** Valid hash

Step1: System generate the  $hashVal$  for it h transaction using Algorithm1

Step2: if( $hashVal$ .valid with $P[]$ )

Valid hash  $Flag=1$  Else  $Flag=0$  Mine again randomly

Step3: Return validhas h when  $flag=1$

## III.CONCLUSION

In India, due to a shortage of skilled manpower and infrastructure, beneficiaries have to wait for a long time to get their well deserved justice. As it is rightly said that "Justice Delayed Is Justice Denied", the prolonged legal proceedings also leads towards various consequences, like hostility of witnesses, unfitness of the accused on medical grounds, tampering, or manipulation of shreds of evidence, etc. The proposed model will help legal professionals to analyze the desired data set and perform prediction on case to case basis depending on the essential parameters of cases by using block chain technology.

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