Artificial Intelligence and the Criminal Justice System

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IBM has already started A.I. applications in the legal world and many document writings or other legal writings are being done by the Artificial Intelligence based machine-learnt applications. In the the medical fields also after diagnosis, prognosis etc. can be better handled by the Artificial Intelligence, of course with some selective interventions by the medical experts. Like aircrafts in the auto Pilot modes also need oversights of human Pilots to see that things are happening in the right course, we may also need human oversights in the criminal justice system selectively after the optimization of AI based applications in this field. A.I. does total objectivity in the decision making processes and then does fast data mining of relevant information or retrievals of court cases to quote them as relevant precedences which human brains may not do so quickly and efficiently due to certain constraints. The data analytics of court cases being integrated with Artificial intelligence, can do miracles in terms of taking decisions and quick writing of lot of relevant things as better substitutes of human beings. Thus Artificial intelligence applications will replace routine jobs like writing judgements (barring a few critical portion of judgments which judges may like write on their own) with much more precisions, objectivity and expertise due to better use of existing data and the legal information ecosystem.

Introduction

It is in this context, I am trying to write about the potentialities of applications of A.I. driven modules to improve the deliverables of criminal justice system. Many countries are thinking and using Artificial Intelligence based robotics to clear the backlogs of pendency of cases in their courts. The judgements are based on certain premises of laws , past judgments and issues raised in petitions etc , therefore use of A.I. is much more possible while preparation of petitions , pronouncement of judgements after analysis of counters and rejoinders through A.I. based applications and then only a small part is left out for the human intervention and that can be done quickly. This will save lot of time and energy along with enhanced outputs. Even A.I. can be used as a consultant type arrangement also to analyze and decide the cases when judges cannot read or go through voluminous texts and papers to decide the cases. Even judgement writing with regard to discussion of evidences, merits and arguments etc. can be better analyzed , narrated and written by A.I. based applications. The creation of audio files of arguments etc can further give enough support to judges to expedite the delivery of judgments. Thus arguments etc. can be better interpreted and made precise where things are not clear or need further elaborations. I think that the idea of justice can be made more achievable quickly and effectively if we introduce A.I. based application ecosystem at various levels in the criminal justice system. The digital case diaries and Artificial Intelligence based investigation flow charts with video and audio combinations in the case files, A.I. based examination of evidences and conclusions, supported by legal provisions etc. can improve the quality of investigations and prosecutions. Thus the entire criminal justice ecosystem can be designed on a single platform where A.I based applications will start the process from crime registration to investigation to scrutiny and charge sheet filings to hearings and writing of judgements, to appeals and finally acquittals or convictions to jail to parol etc. They all can be based on data integrated platforms, totally driven by the A.I. enabled eco system.

The way crime is increasing and it's registration exponentially, we have no option but to create a better software ecosystem from A to Z points of the Criminal Justice System in the integrated ways, using the best A.I. driven applications after customizing them to the relativities. I think that the pendency of large number of cases, languishing prisoners in jails, miscarriage of judicial processes , criminals being unpunished due to prolonged trials etc. are costlier than adopting A.I. based modules in these areas. Of course, some legislative framework may be required to give it a sovereign mandate but it is high time that we must opt for this. When there is a surging demand of online registration of FIRs and the number of cases are going to overload the work pressure, there will be a huge mismatch of number of I.Os and registration of FIRs. Only the A.I. based ecosystem of work architecture can make the policing and the criminal justice system strong and efficient enough to cope with these challenges. The investigation process too needs AI based applications where things can be automated under the oversights of IOs and senior officers.

The architecture of investigation related AI software eco system can be designed to increase the quality and professionalism of investigations and their expeditious disposals along with onward electronic transmissions to get the scrutiny done and then sending them to courts for trials or writing judgments or handling appeals and so on so forth. Hence from writing of FIR to conviction or acquittal to appeal to parole to bail etc everything can be integrated on linear flow charts being driven by the AI ecosystem and related software architecture.

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