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Futuristic Vision of Forensic Science in Crime and Law

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The field of forensic science in criminal investigation and law enforcement is on the verge of a paradigm change that will bring in a futuristic vision that promises unmatched precision, effectiveness, and moral rigour. The promise and ramifications of this vision are explored in depth in this abstract, along with the changing role of forensic science in preventing crime, ensuring justice, and preserving civil rights. In the past, methods like DNA profiling, fingerprint analysis, and ballistics have been connected to forensic science. Even while these techniques have been crucial in helping to solve countless crimes, forensic science's future looks to offer a wider range of tools with greater sophistication. The manner that evidence is gathered, examined, and presented in courts is about to undergo a change because to advancements in domains like genetics, nanotechnology, artificial intelligence, and data analytics. In order to identify suspects and victims with extreme precision, genome sequencing, for instance, offers the possibility of highly customised DNA analysis. Thanks to nanotechnology, fast examination of trace evidence at crime scenes is now possible using small, portable forensic tools. Artificial intelligence systems have the potential to process enormous volumes of data and then uncover correlations and patterns that human investigators might overlook. Additionally, the chain of custody for evidence is unalterable and public thanks to blockchain technology, protecting it from fraud and corruption. The difficulties and ethical issues are there in this futuristic view of forensic science, though. Questions about bias, privacy, and the possibility of abuse come up as science advances.

Biography

Dr. Sumbul Fatima has her expertise in criminal law. She has bagged Gold Medal in B.A.LL.B(H) and LL.M(criminal Law) as well as also awarded the very prestigious award named "GOOLAM .E. VAHANVATI AWARD" for being the most outstanding student of LL.M in 2016. She is working as an Assistant Professor in School of Law of Manav Rachna University, Faridabad, Haryana.