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A Review on A Study of Impact of Technological Advancement of Intellectual Property and Research Methodologies

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Abstract: Technological breakthroughs have fundamentally altered intellectual property (IP) research processes, introducing new tools and ways for assessing, protecting, and utilizing intellectual assets. This paper examines the multiple effects of emerging technologies such as artificial intelligence (AI), big data analytics, blockchain, and augmented reality (AR) on established intellectual property research paradigms. AI and machine learning techniques make it easier and more accurate for academics to locate relevant patents by automating procedures like patent analysis and classification. Big data analytics use massive databases to extract insights and patterns, allowing for text mining and natural language processing approaches in IP research. Blockchain technology enables secure and immutable ledgers for tracking and validating IP ownership, hence improving IP protection and enforcement. Furthermore, AR and VR technologies provide unique methods to view and simulate intellectual assets, promoting collaborative research environments. Despite its advantages, technology improvements provide issues such as data privacy concerns, algorithm bias, and ethical questions in IP rights enforcement. Looking ahead, authorities must address these issues to guarantee that technology is used responsibly and fairly in intellectual property research. Collaboration across academic, industrial, and government players will be critical in realizing the full potential of technology to foster innovation in the digital age.

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