

SUMMARY OF PAPERS

1. Natural Language Processing In The Legal Domain, Domain, Daniel Martin Katz, Dirk Hartung, Lauritz Gerlach, Abhik Jana, Michael J. Bommarito, 2023					
Contribution	Work done	Simulation/Hardware	Performance Metrics	Achievements	Future Enhancement / Limitations
Comprehensive review of Legal NLP, highlighting its growth, trends, and alignment with general NLP.	Analysis of over 600 NLP & Law-related papers, focusing on methodologies, data sharing, and open-source practices.	Identification of trends in legal datasets, computational resources, and real-world applications	Identification of trends in legal datasets, computational resources, and real-world applications	Demonstrated the rising complexity and utility of models, increasing relevance to industry players.	Calls for integrating generative models into literature and refining engineering aspects.
2. Role of AI in Legal Aid and Access to Criminal Justice, Karan Singh Chouhan, 2019					
2. Discussed AI systems like Legal Navigator Portal for accessible legal aid and research efficiency.	Developed AI-driven systems to simplify legal jargon and enhance legal research	Developed AI-driven systems to simplify legal jargon and enhance legal research	Efficiency in identifying relevant laws and statutes, enhanced accessibility to legal resources.	Improved accessibility to legal aid, efficiency in legal research for laypeople and professionals.	Potential for broader AI application in legal systems to bridge gaps in legal aid.
3. Russian Court Decisions Data Analysis Using Distributed Computing and Machine Learning, Oleg Metsker , 2019					
3. Analyzed administrative court decisions using NLP for law enforcement insights.	Processed over 50,000 court decisions with NLP techniques for pattern analysis.	Processed over 50,000 court decisions with NLP techniques for pattern analysis.	Insights into socio-economic influences on law enforcement	Revealed trends in administrative penalties and law enforcement disparities.	Development of simulation models for analyzing legal documents with broader socio-economic factors.

			and regional disparities.		
4. Leveraging Natural Language Processing for Legal Research: Trends and Future Directions, Hiral Modi, 2020					
4. AI integration, particularly through NLP, is revolutionizing legal research, document analysis, and case outcome predictions.	Introduced AI tools capable of automating legal document summarization, information extraction, case classification, and predictive analytics.	Introduced AI tools capable of automating legal document summarization, information extraction, case classification, and predictive analytics.	Enhanced efficiency in legal research, reduced time and cost in legal aid services, and improved access to justice for underserved communities.	Democratized legal knowledge through advanced AI tools. Enabled smaller legal aid organizations and individual clients to access advanced analytics. Offered accessible entry points into justice systems through AI-powered chatbots and virtual assistants.	Ethical considerations like data privacy and algorithmic biases need to be addressed. Ensure accessibility and scalability of AI tools for non-profit organizations serving marginalized populations.