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[E-Mail:- ijemmr2395@gmail.com](mailto:ijemmr2395@gmail.com)

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<i>Paper Title</i>	A Review on AI and Machine Learning Based Approaches for Cybersecurity Threat Detection
<i>Authors & Affiliation</i>	Sujal Agrawal ¹ , Dr. Manoj Verma ² Assistant Professor, Department of Computer Science Engineering ¹ Associate Professor, Department of Artificial Intelligence and Data Science ²
<i>Abstract & Keyword</i>	<p><i>Abstract</i></p> <p><i>In order to reverse the trend of decreasing ridership, changes to how cities organize their communities and transit systems need to take place. Part of these efforts include improving information systems operated by transit agencies through artificial intelligence and other means to aid operators in the decision-making process and help riders be better informed of any changes to their commute. The data collection module is transformed from an active process of limited observations to a passive process capable of capturing all of the available data a transit operator has available. The feature extraction module evolves from a sequential process involving the combination and pre-processing of tabular data into a module capable of generating datasets from hierarchical time-series data streams at a rate of thousands of records per second. This technique would allow feature generation to participate as part of the fine-tuning process. Finally, the evaluation module introduces new standards for evaluating public transit models by proposing visualizations and test sets based on routes and times rather than a single-value performance metric. The module also proposes the use of shifting binary classification techniques to provide a easier-to-understand insights in model performance.</i></p> <p><i>Keyword :- Machine Learning, Cybersecurity, Threat Detection, AI, Network Security.</i></p>
<i>Paper Download Link</i>	https://ijemmr.co.in/wp-content/uploads/2026/06/IJEMMR_Vol-12-Issue-06-June-2026_Sujal_pagenumber.pdf
<i>Paper Title</i>	Developing Machine Learning Algorithms for Constraint Physical Systems of Cybersecurity Threats
<i>Authors & Affiliation</i>	Hansika Sachdeva ¹ , Satish Pathak ² , Dr. Rajeev Yadav ³ M. Tech. Scholar, Department of Computer Science Engineering, SKU Chhatarpur ¹ , M.P. India Department of Computer Science Engineering, SKU Chhatarpur ² M.P. India Department of Computer Science

	Engineering, SKU Chhatarpur3 M.P. India
<i>Abstract & Keyword</i>	<p><i>This thesis explores two computational approaches to learn and simulate complex physical systems exhibiting constraint characteristics. The target applications encompass both solids and fluids. On the solid side, we proposed a new family of data-driven simulators to predict the behaviors of an unknown physical system by learning its underpinning constraints. We devised a neural projection operator facilitated by an embedded recursive neural network to interactively enforce the learned underpinning constraints and to predict its various physical behaviors. Our method can automatically uncover a broad range of constraints from observation point data, such as length, angle, bending, collision, boundary effects, and their combinations, in the context of a diverse set of physical systems including rigid bodies, ropes, articulated bodies, and multi-object collisions. On the fluid side, we proposed a gauge numerical simulator to model fluid phenomena using Clebsch wave functions. Our method combines the expressive power of Clebsch wave functions to represent coherent vortical structures and the generality of gauge methods to accommodate a broad array of fluid phenomena. We devised a transformed wave function as the system's gauge variable to improve a fluid simulator's vorticity generation and preservation ability.</i></p> <p><i>Keyword :- Machine Learning, Cybersecurity, Cybersecurity Threat Detection, Cyber-Physical Systems, Constrained Physical Systems</i></p>
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