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

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<i>Paper Title</i>	Machine Learning Based Optimization of Network Traffic for Telecommunication Companies
<i>Authors &amp; Affiliation</i>	Sujal Agrawal <sup>1</sup> , Dr. Manoj Verma <sup>2</sup> Assistant Professor, Department of Computer Science Engineering <sup>1</sup> Associate Professor, Department of Artificial Intelligence and Data Science <sup>2</sup>
<i>Abstract &amp; Keyword</i>	<p>Abstract According to the Population Division of the United Nations, in the United States, almost 90% of the population will live in urban areas by the year 2050. As the population in a given area increases, higher traffic congestion follows due to an increase of vehicles in the road. A possible way to alleviate congestion could be with widespread use of public transit. However, according to the US Census Bureau, the percentage of individuals commuting through public transportation has been decreasing steadily over time, and the American Community Survey reports that during 2019, only around five percent of the US population reported relying on public transit on a daily or weekly basis. This work pertains to the implementations and improvements to techniques used when performing machine learning activities in the public transportation space. Standard machine learning pipelines are organized as four modules: data collection, feature extraction, model learning and evaluation. Throughout this dissertation, three of the four modules are evaluated, their limitations explored, and addressed through novel techniques that address issues such as: reproducibility across datasets, technique transfers across transit operators and decreasing the barrier of entry into the field. Keyword :- Machine Learning, Telecommunications Networks, Network Performance, Deep Learning, Data Analytics</p>
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