

**BUDAPEST UNIVERSITY OF TECHNOLOGY AND
ECONOMICS
Faculty of Natural Sciences
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MASTER'S THESIS EXTRACT

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Title of thesis: Traffic Prediction Using Time Series Models

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SUMMARY OF THESIS

As urban traffic congestion continues to pose significant challenges worldwide, accurate traffic prediction models are crucial for effective traffic management and efficient transportation systems. This thesis presents a comprehensive study on traffic prediction using SKTIME models, focusing on two prominent datasets: METR-LA and PEMS-BAY. The primary objective of this research is to investigate the effectiveness of SKTIME models in predicting traffic patterns and compare their performance across the METR-LA and PEMS-BAY datasets. The research provides valuable insights into the effectiveness and applicability of SKTIME models in capturing traffic patterns, considering the unique characteristics of the datasets. The findings contribute to the field by offering practical recommendations and paving the way for further advancements in traffic prediction techniques.