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**Paper ID** : 504

**Paper Title** : Hourly Load Forecasting Using GRU and Classical Models A Benchmark Study on Subscriber-Level Data

**Bio :**

Ömer Adigüzel is a Data Scientist at Eksim Investment Holding, where he specializes in developing and deploying end-to-end AI solutions. He is currently pursuing a Master of Science in Software Engineering from Firat University and holds a Bachelor of Science in Electrical and Electronics Engineering from Dicle University. His recent research focuses on hourly load forecasting and AI-based subscriber classification in power distribution networks.

His primary professional interests include deep learning, machine learning, large language models (LLMs), computer vision, and time series forecasting. Mr. Adigüzel has led notable projects, including the development of a YOLOv8-based computer vision system that analyzes over 90,000 monthly images to reduce manual review time by over 90%. He also developed "Utilon," an autonomous Jira ticket management system using local LLMs and RPA, and deployed forecasting models that achieved 94% accuracy in predicting hourly energy consumption.