

First Presentation

Empirical Evaluation of Gated Recurrent Neural Networks on Sequence Modeling

In this research paper we evaluate the performance of Long Short-Term Memory (LSTM) and Gated Recurrent Units (GRU) on sequence modeling tasks. Using datasets from polyphonic music and speech signals, the study highlights the strengths of these recurrent units compared to standard tanh units, with results demonstrating that performance varies depending on the dataset.

Second Presentation

Empirical Evaluation of CNNs and Vision Transformers (ViTs)

This presentation examines and compares the performance of Convolutional Neural Networks (CNNs) and Vision Transformers (ViTs) in computer vision tasks. It explores their architectures, working principles, and effectiveness in different scenarios. The analysis provides insights into when CNNs or ViTs are more suitable based on task requirements. Presented by Talha Altaf (K67896) and Jaiki (K67913).