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Independent BiLSTM-BiGRU Networks For Binary Question Answering

Abstract

Question Answering (QA) systems have garnered significant interest in the field of artificial intelligence due to their potential applications in various domains such as information retrieval, virtual assistants, and automated customer support. This project focuses on developing a QA system using deep learning techniques implemented in the Python programming language. The project utilizes deep learning models and neural networks to analyze textual data and extract meaningful information to generate accurate responses to user queries. By leveraging the power of deep learning, the system aims to understand the context and semantics of questions, enabling it to provide relevant and coherent answers. The implementation involves preprocessing textual data and training deep learning models on large datasets. Evaluation metrics such as precision, recall, and F1 score are used to assess the effectiveness of the system in answering questions accurately. Through this project, we aim to demonstrate the effectiveness of deep learning techniques in building robust QA systems and contribute to the advancement of natural language processing research. The results and insights gained from this project can potentially be applied to enhance user experiences in various applications that require intelligent question answering capabilities.