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Advanced Healthcare System using Artificial Intelligence

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Abstract:
Matters like prescription and maintenance of health records hugely impact the efficiency of health care. Advanced technologies could be used to change the current scenario. This paper proposes a resourceful, web interface which enables access of medical records to the patients and a neural network model which predicts medication for ailments. The web interface acts as a medium between doctor and patient, allowing them to access the required information. The proposed method uses custom trained speech to text model and applies Natural Language Processing (NLP) on the acquired text, to provide the patient with a prescription. The proposed method further develops a neural network model which predicts the medication to be used by the patient, based on the symptoms. The proposed system achieved a Word Error Rate (WER) of 21.5% for the custom trained Speech to Text (STT) model. The AI bot used for medication prediction has achieved an accuracy of 88%.

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