

SYSTEMS AND METHODS FOR PREDICTING KIDNEY CONDITIONS

Abstract

5 The present disclosure generally relates to a computer system (100) and a computerized method (300) for predicting a kidney condition for a patient using a machine learning model (200). The method (300) comprises: obtaining (310,330) a current patient input dataset and a historical eGFR input dataset associated with the patient; generating (320) a patient input vector representation (222) using the current
10 patient input dataset and an input linear layer (220); generating (340) an eGFR vector representation (242) using the historical eGFR input dataset and a first input machine learning module (240); concatenating (350) the patient input and eGFR vector representations (222,242) into an output vector representation (260); and generating (360) a prediction output (280) using the output vector representation (260) and an
15 output machine learning module (270), the prediction output (280) comprising a risk assessment of the patient contracting the kidney condition.

Figure 2A

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