

Machine Learning Analysis of Readmission of Patients Diagnosed With Ischemic and Pulmonary Heart Diseases Using AI

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Abstract

Clinic readmissions are pointers of the nature of administration offered by medical clinics and give a knowledge into the presentation measures on the expense at the clinic. A readmission occasion happens when a patient that has been released from a medical clinic after finding and method is again readmitted to the clinic inside a specific period. The Nationwide Readmissions Database (NRD) is important for a group of information bases and programming instruments created for the Healthcare Cost and Utilization Project (HCUP). For this exploration, the information for the year 2016 from the National Readmission Database (NRD) will be examined and AI models worked to demonstrate the connection among readmission and different variables identified with the patient. The models worked in this examination study will be utilized to facilitate the forecast of medical clinic readmission which is significant in medical care the executives. Ischemic And Pulmonary Heart illnesses are among the basic infections in medical care administrations. The observing of these sicknesses, accordingly, ought to be taken care of with extreme consideration and with prepared experts. Different investigations have demonstrated that readmission of these infections has a higher rate contrasted with non-pneumonic illness, consequently the requirement for basic examination and study in these regions. The perceptions for Ischemic heart ailments and illnesses of aspiratory course (analysis codes I20 to I28) will be utilized for this investigation. Investigation and integrity of model lists, for example, the disarray lattice, AUC list, MSE, and R squared scores and discoveries from the examination will likewise be assessed and revealed considering the model boundaries.



projects using Cloud and Machine Learning technologies to improve quality of care for the members

Speaker Publications:

1. "Indian Automobile Industry - Industry Volatility in the Four Wheeler Sector, 'Business Spectrum (a quarterly journal of the Indian Centre for Business Research), Vol. 3, Issues 1 & 2, Jan-March 1993, April - June 1993, pp 33-38
2. "ASD'Innovations in Financial Instruments - New Dimensions to Corporate Financial Strategies in India, 'Businex (Journal of the Management Association, PSG College of Technology, Coimbatore) Vol. XXIV, 1994, pp 9-15

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Biography:

Venkat Lellapalli is working on his Ph.D in Industrial and Systems Engineering at the Mississippi State University in USA . He has twenty years of work experience in Healthcare Insurance companies working on Healthcare and wellness