

(54) Title of the invention : SMART SYSTEM FOR CLASSIFYING DRUGS INTO MULTIPLE CATEGORIES WITH THE USE OF MACHINE LEARNING MODELS

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(57) Abstract :
 Drug classification is crucial in medicine because it helps determine the best drugs for patients based on patient characteristics and medical history. The dataset with various features helps determine which drugs are best for individuals. Multi-class drug classification classifies drugs by their uses and therapeutic effects. Drug classification has traditionally been done manually or using rules, with doctors prescribing drugs based on patient characteristics. When dealing with many drugs and patients, this method may be inefficient and time-consuming. Machine learning revolutionizes that process. Machine learning models can automatically analyze large amounts of data, learn complex patterns, and make predictions. This project aims to create a machine learning model that accurately classifies drugs by age, gender, blood pressure, cholesterol, and sodium-potassium ratio. The target variable is "Drug," the drug's name or class. Exploratory data analytics, which visualizes and represents data, is also used in this project. We can learn about the relationships between features and drug classes by exploring and visualizing the data, which will help us build a reliable and accurate drug classification machine learning model.

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