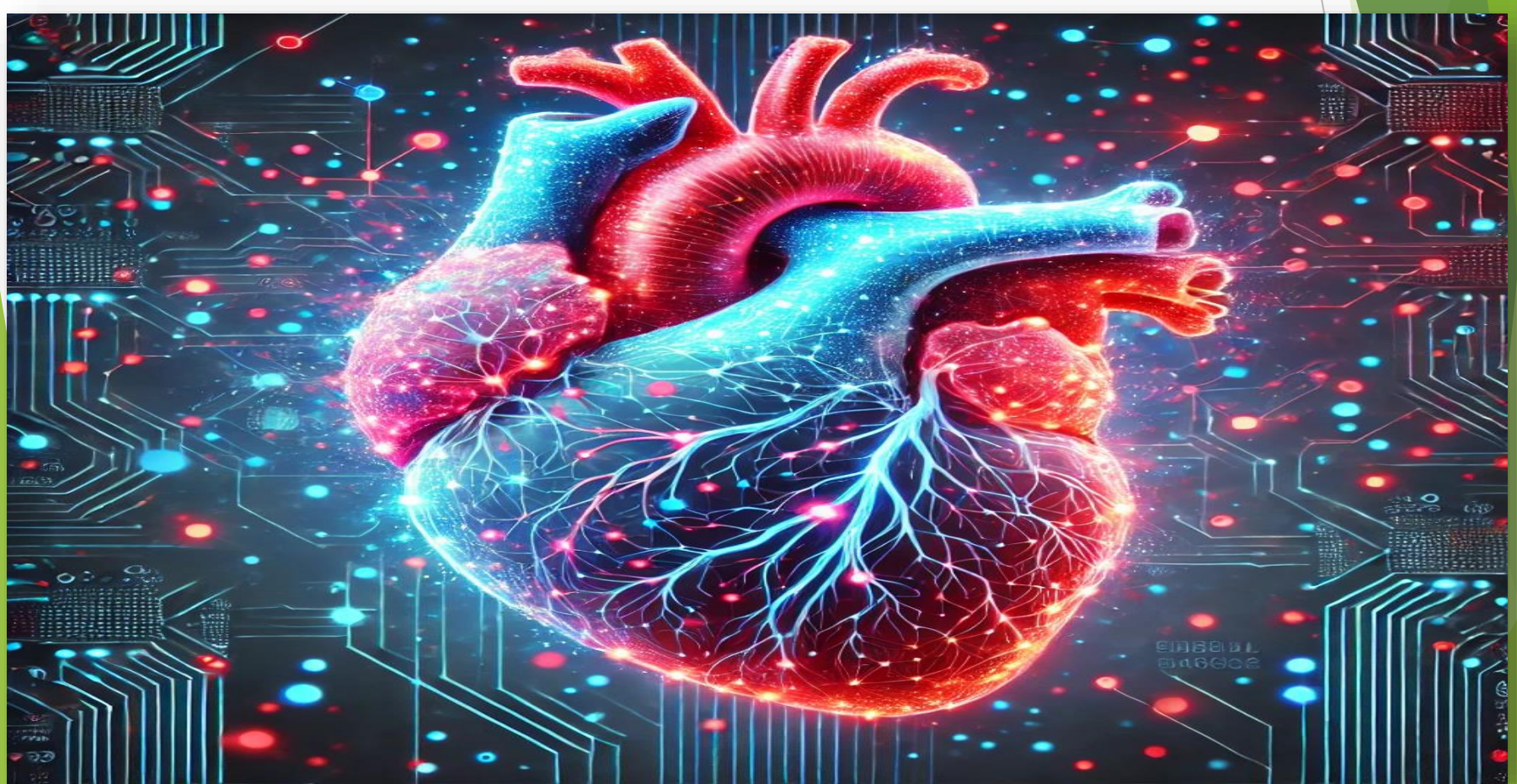


Heart Disease Prediction using Machine Learning

Gaurav Kumar



Different stages and expected outputs

Stage 1: Data Collection and Understanding

Collected dataset and domain understanding.

Stage 2: Data Preprocessing and Feature Engineering

Cleaned and preprocessed data ready for modeling.

Stage 3: Model Development

Trained models with tuned hyperparameters.

Stage 4: Model Evaluation and Comparison

Model performance metrics and selected best model.

Stage 5: Deployment and Monitoring

Deployed model with real-time monitoring setup

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Different stages and expected outputs

Data Collection and Understanding

Collect heart rate-related data from relevant sources.

Inspect the dataset for missing or inconsistent values.

Define project objectives for heart rate prediction.

Explore domain knowledge on cardiovascular health factors.

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Define project objectives for heart rate prediction.

Different stages and expected outputs



Data Preprocessing and Feature Engineering

Handle missing values, outliers, and normalize/scale numerical features.

Encode categorical variables and perform feature selection.

Encode categorical variables and perform feature selection.

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Different stages and expected outputs



Model Development

List more details



Train machine learning models on the preprocessed data.



Perform hyperparameter tuning to optimize model performance.

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Different stages and expected outputs



Model Evaluation and Comparison



1. Evaluate models using performance metrics (accuracy, precision, recall, F1-score) and select the best-performing model.

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Different stages and expected outputs



Deployment and Monitoring

Deploy the best-performing model and implement a real-time monitoring system to track performance and usage.

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