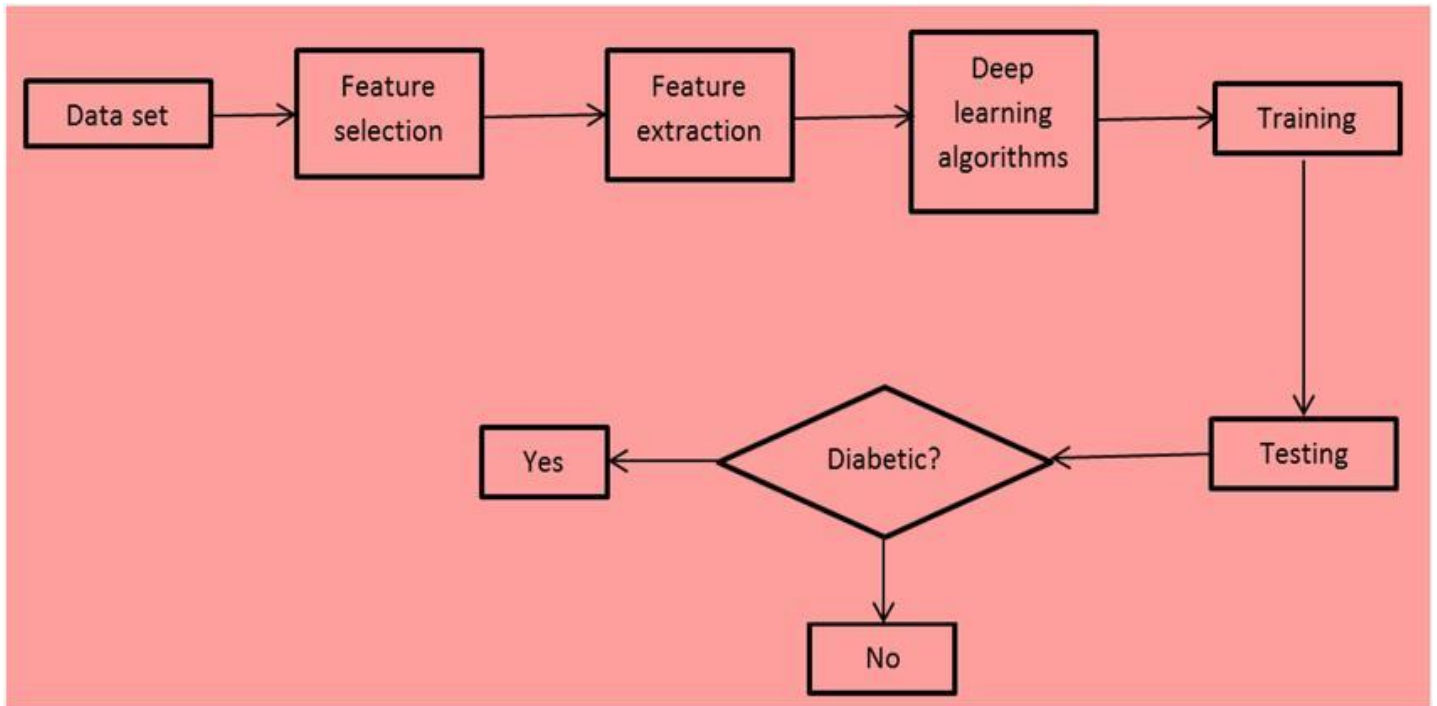# Flowchart for AI based diabetes prediction system

DIAGRAM :

EXPLANATION :

1.Start – Begin the flowchart.Input Data – Gather patient data, which may include age, gender, weight, family history, lifestyle, and medical history.

2.Data Preprocessing – Perform data cleaning, normalization, and feature engineering to prepare the data for the AI model

3..Feature Selection – Choose the most relevant features for diabetes prediction.

4.Machine Learning Model – Use AI and machine learning algorithms to create the predictive model. This could be logistic regression, decision trees, random forests, or neural networks.

5.Model Training – Train the model using a labeled dataset of diabetes cases and non-diabetes cases.

6.Model Evaluation – Evaluate the model's performance using metrics like accuracy, precision, recall, and F1 score.

7.Threshold Selection – Choose a threshold for diabetes prediction probability.

8.Prediction – Use the trained model to predict whether a person is likely to have diabetes based on their input data.

9.Output – Display the prediction result (e.g., "Diabetes" or "No Diabetes").

10.Feedback Loop – If the prediction is incorrect, collect feedback and update the model periodically to improve accuracy

11..End – Finish the flowchart.