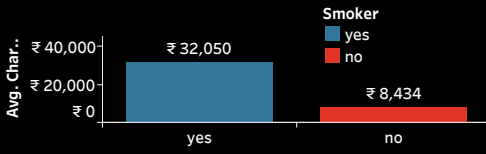




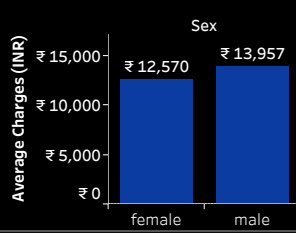
## Medibuddy Insurance Data Analysis Report

Analysis of 1338 policies reveals smoking status as the primary driver of charges (smokers: ₹32,050 vs. non-smokers: ₹8,434). Age and BMI also influence claims (older: ₹17,043; obese: ₹15,468). Gender and region have minimal impact. A Random Forest model predicts charges with 89% accuracy ( $R^2=0.89$ , RMSE= $\sim$ 4,660 INR), with smoking as the top predictor (62.77% importance).

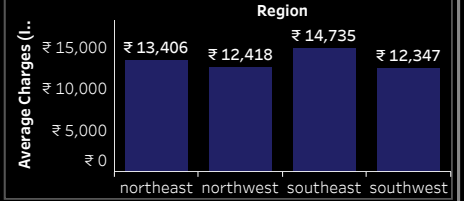
### Mean Charges by Smoker Status



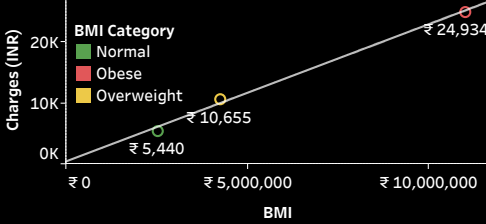
### Mean Charges by Gender



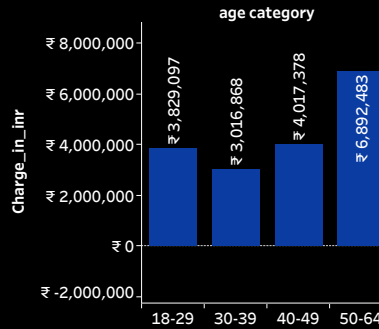
### Mean Charges by Region



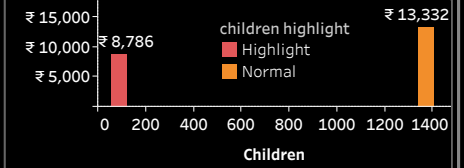
### Charges vs. BMI by Category



### Mean Charges by Age Category



### Mean Charges by Number of Children



Average Policy Charges

₹13,270

### Feature Importance for Predictive Model

