DataVisualizationusingR.

Code :

```
install.packages("ggplot2")
install.packages("dplyr")
install.packages("tidyr")
install.packages("scales")

library(ggplot2)
library(dplyr)

set.seed(123)

healthcare_data<-data.frame(
  PatientID = 1:100,
  Age=sample(18:85,100,replace=TRUE),
  Gender=sample(c("Male","Female"),100,replace=TRUE),
  Diagnosis=sample(c("HeartDisease","Diabetes","Cancer","Hypertension"),100,replace=TRUE),
  Treatment = sample(c("Surgery", "Medication", "Therapy"), 100, replace = TRUE),
  Outcome=sample(c("Recovered","Improved","Deteriorated","NoChange"),100,replace=TRUE),
  HospitalStay = sample(1:30, 100, replace = TRUE),# Duration of hospital stay in days
  Cost=round(runif(100,min=5000,max=50000),2)#CostoftreatmentinUSD
)
head(healthcare_data)

ggplot(healthcare_data,aes(x=Age))+
  geom_histogram(binwidth=5,fill="skyblue",color="black")+
  labs(title="AgeDistributionofPatients",x="Age",y="NumberofPatients")+ theme_minimal()
```