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LAMPIRAN

```r
# Install package (jalankan sekali)
install.packages("randomForest")
install.packages("Metrics")
install.packages("caret")

# Memanggil library
library(randomForest)
library(caret)
library(Metrics)

# Membaca data
data <- read.csv("data_sawit.csv")

# Menentukan seed
set.seed(123)

# Membagi data 70% training dan 30% testing
trainIndex <- createDataPartition(data$Produktivitas,
                                  p = 0.7,
                                  list = FALSE)

train <- data[trainIndex, ]
test  <- data[-trainIndex, ]

# Membangun model Random Forest
model_rf <- randomForest(
  Produktivitas ~ Curah_Hujan,
  data = train,
  ntree = 500,
  mtry = 1,
  importance = TRUE
)

# Ringkasan model
print(model_rf)

# Prediksi
prediksi <- predict(model_rf, test)

# Evaluasi
R2 <- cor(test$Produktivitas, prediksi)^2
RMSE <- rmse(test$Produktivitas, prediksi)
MAE <- mae(test$Produktivitas, prediksi)

cat("R2 :", round(R2,3), "\n")
cat("RMSE :", round(RMSE,3), "\n")
cat("MAE :", round(MAE,3), "\n")

# Variable Importance
importance(model_rf)
varImpPlot(model_rf)
```