

# **PREDICTIVE MAINTENANCE FOR MANUFACTURING EQUIPMENT**

**TEAM MEMBERS: MADHUR DESHPANDE  
OM NAIR**

# **METHODOLOGY:**

## **Data Preprocessing**

- **Encoding Categorical Variables**
- **Feature Selection**
- **Target Variable Definition**

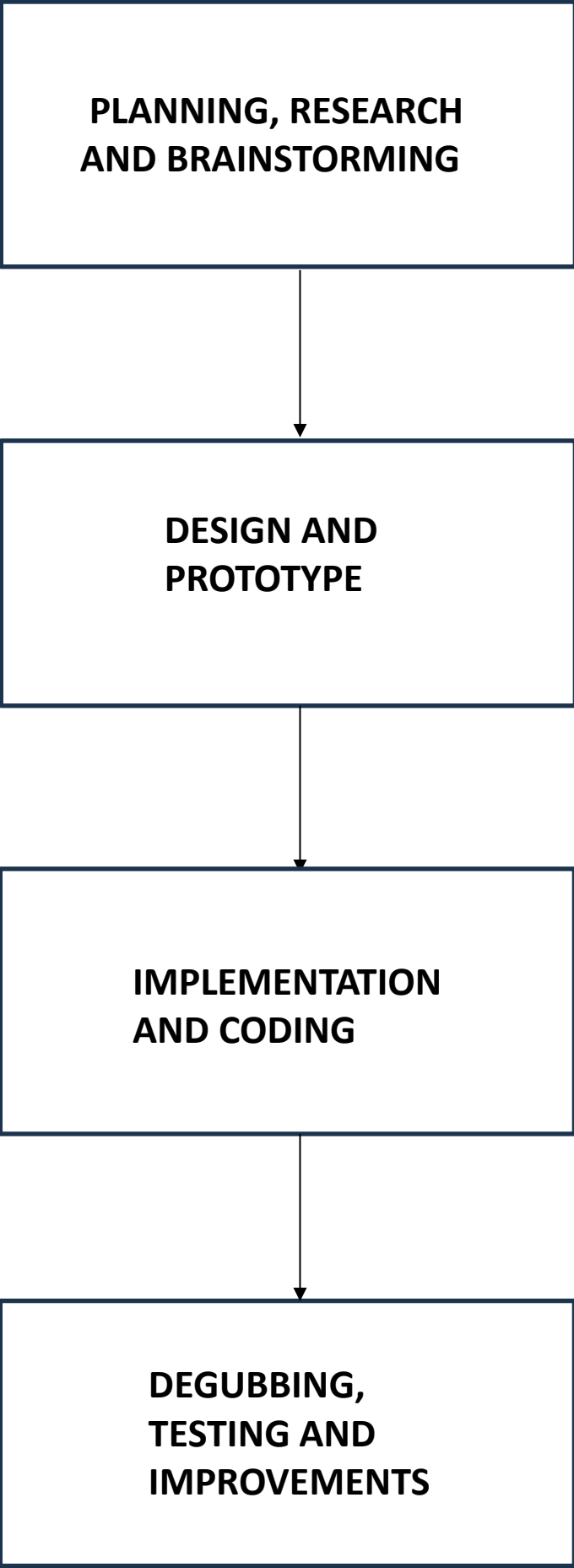
## **Predictive Model Development**

- **Model Selection: Random Forest Classifier**
- **Training and Test Process**

## **Prediction and Metrics**

- **Classification Report**
- **Confusion Matrix**

# PROCESS:



RESULTS:

Classification Report:				
	precision	recall	f1-score	support
0	0.98	1.00	0.99	1925
1	0.89	0.52	0.66	75
accuracy			0.98	2000
macro avg	0.93	0.76	0.82	2000
weighted avg	0.98	0.98	0.98	2000

Fig.1: CLASSIFICATION REPORT

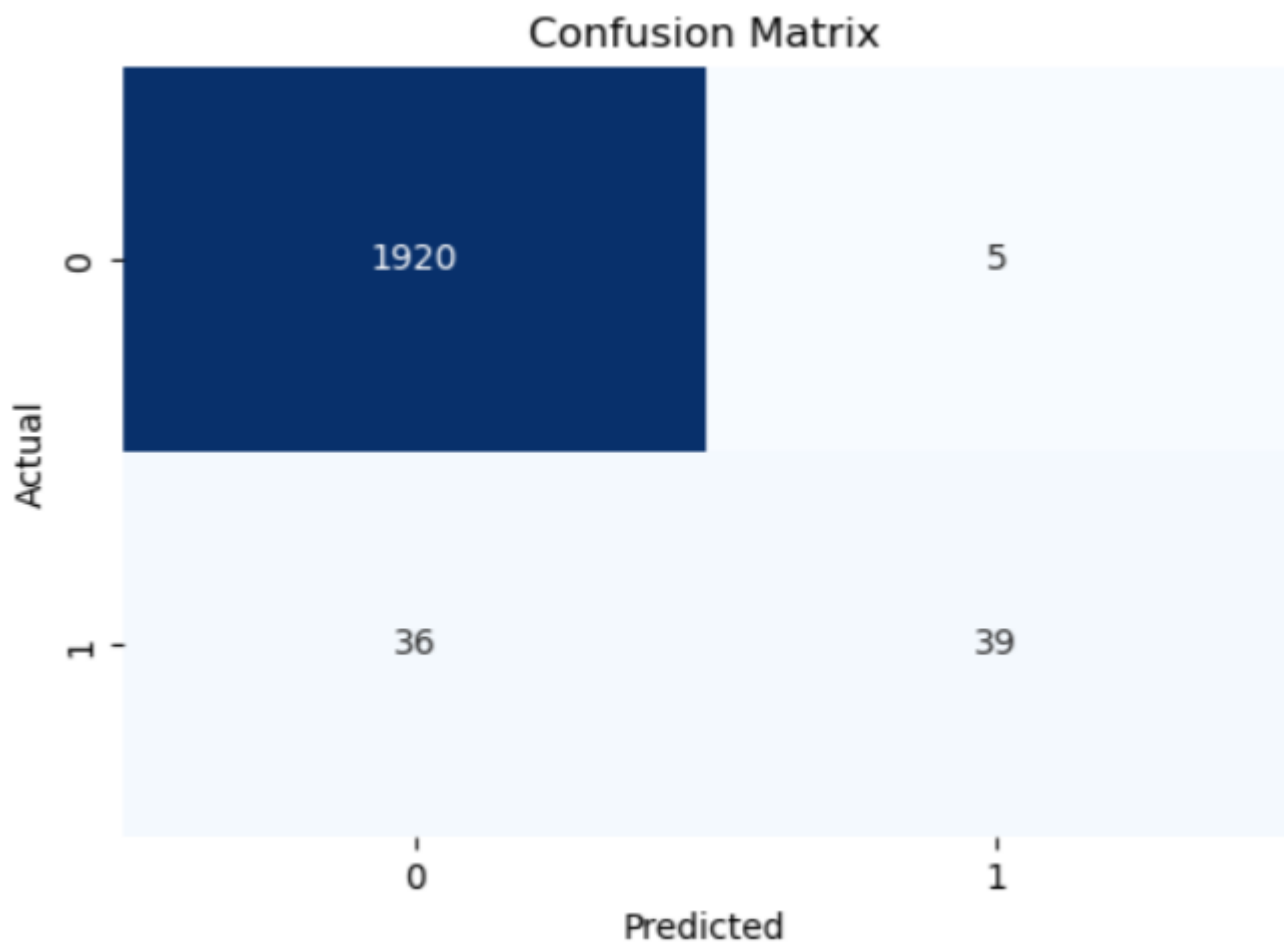


Fig.2: CONFUSION MATRIX

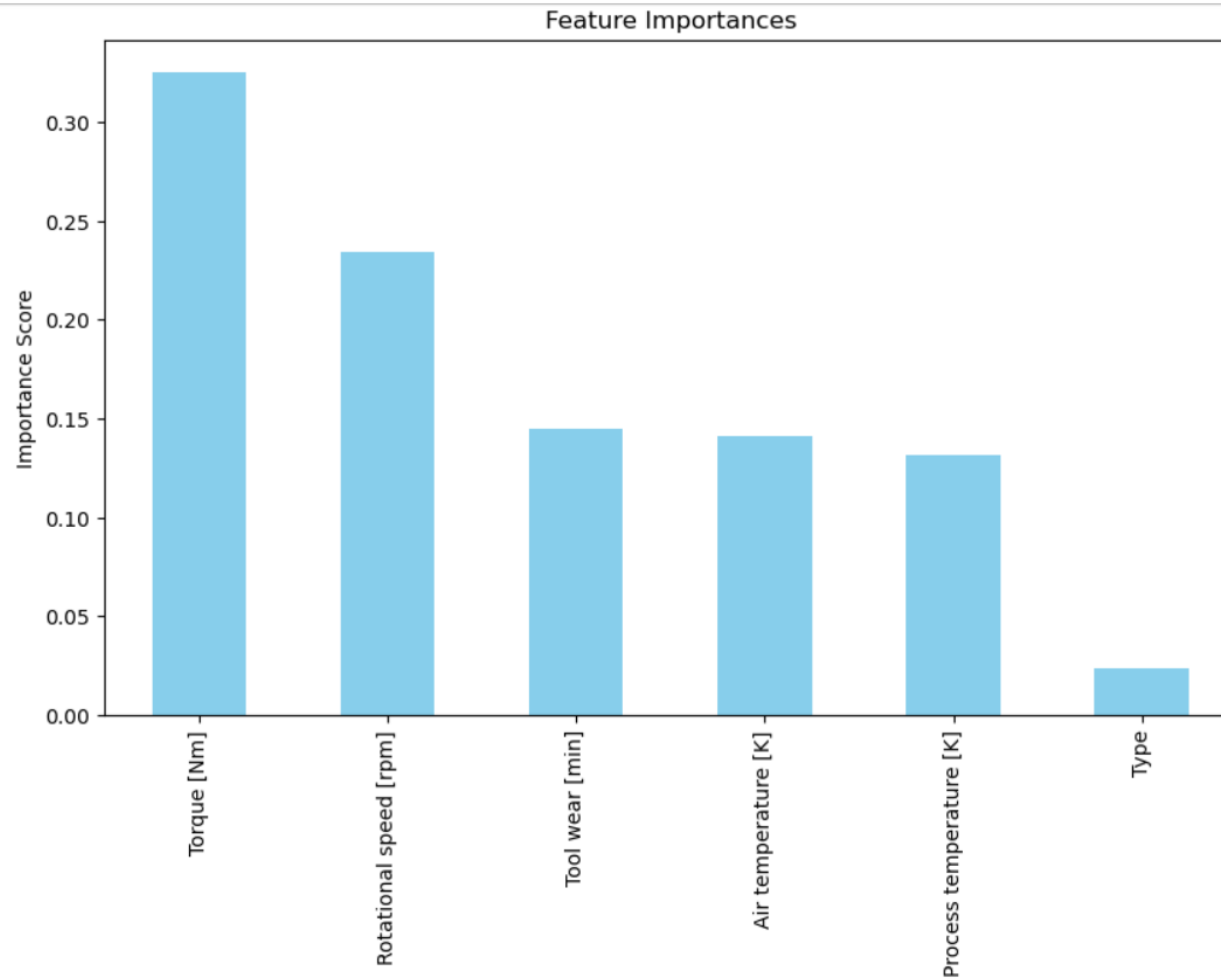


Fig.3: FEATURE IMPORTANCE GRAPH

**THANK  
YOU**