



Figure 8.1: Dataset Distribution Plot

- Precision: 90%
- Recall: 89%
- F1-Score: 90%

Table 8.2: Model Performance Metrics

Metric	Value
Accuracy	92%
Precision	90%
Recall	89%
F1-Score	90%

## 8.4 Frontend Development

- **Home Page:** Introduces the system with navigation links.
- **Prediction Form:** Collects user inputs with real-time validation.
- **Dashboard:** Displays charts using Chart.js.

## 8.5 Backend Development

- **API Endpoints:**
  - `/predict`: Processes inputs and returns predictions.