

HR RECRUITMENT FUNNEL ANALYTICS

Enterprise-Grade ML-Powered Recruitment Intelligence Platform

■ Problem Statement

- 1,480 applicants across 8 hiring stages
- Manual tracking prevents insights
- Need data-driven optimization

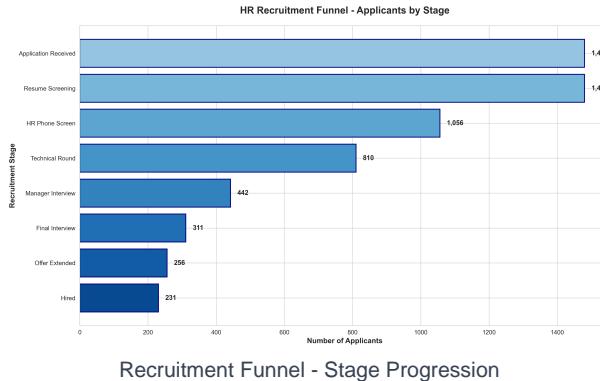
■ Key Achievements

- ✓ 45.4% drop-off identified
- ✓ 97.8% ML accuracy (ROC-AUC)
- ✓ Company Website 27% better
- ✓ 43-day avg time-to-hire

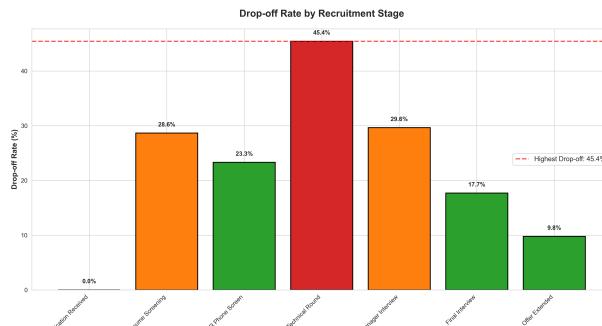
■ Tech Stack

Python • SQL • Machine Learning
Random Forest • Gradient Boosting
Streamlit • FastAPI • Plotly

■ Data Visualizations



Recruitment Funnel - Stage Progression



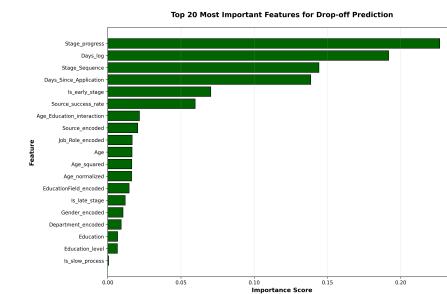
Drop-off Analysis - Technical Round Bottleneck (45.4%)

■ ML Performance

ROC-AUC: 97.8%

Accuracy: 92.0%

F1-Score: 81.9%



■ Business Impact

Source Effectiveness:

- Company Website: 19.4%
- Campus Hiring: 16.4%
- LinkedIn: 15.9%
- Naukri: 15.2%

■ Recommendations

1. Fix Technical bottleneck
2. Budget reallocation (+35%)
3. ML-driven interventions