

AI-Based Smart Allocation Engine for PM Internship Scheme

Technical Report Template

This is a placeholder PDF report. In a complete implementation, this would contain:

1. System Architecture Diagram
 - Frontend, Backend, ML Engine, Database components
 - Data flow and API interactions
2. Machine Learning Methodology
 - Feature engineering approach
 - Similarity-based vs supervised learning models
 - Fairness algorithm implementation
3. Fairness and Bias Mitigation
 - Reservation quota enforcement
 - Score boosting for underrepresented groups
 - Evaluation of fairness metrics
4. Performance Evaluation
 - Precision@K, Recall@K, MAP metrics
 - Response time and scalability analysis
 - Quota fulfillment rates
5. Implementation Details
 - Technology stack and deployment
 - Security and privacy measures
 - Testing and quality assurance
6. Screenshots and Demo Results
 - User interface screenshots
 - Sample matching results
 - Admin panel views

To generate the complete report with actual screenshots and results, run the system and capture the outputs.