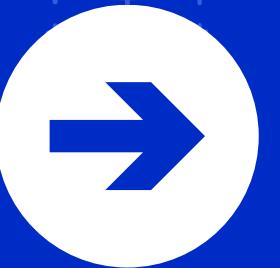


PLP HACKATHON

AI-Driven Applicant Selection Tool for LSETF/PLP

Revolutionizing Talent Identification for Nigeria's Growth



Presented by Calvine Dasilver

SEPT 2025

Problems



Problem 1

Manual applicant screening is time-consuming and subjective



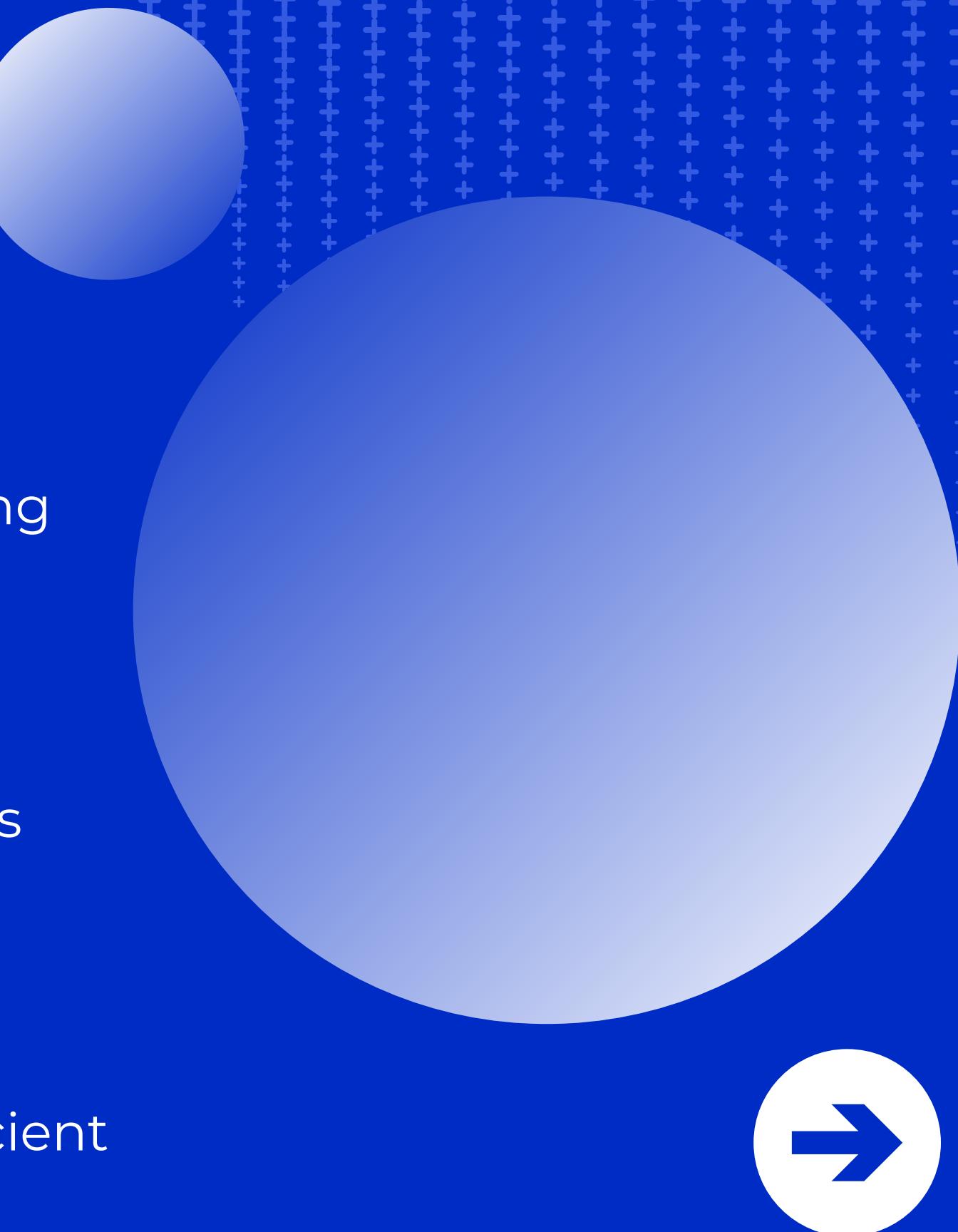
Problem 2

LSETF/PLP programs face scalability challenges



Problem 3

Nigeria's growing tech talent pool needs efficient evaluation



Solution



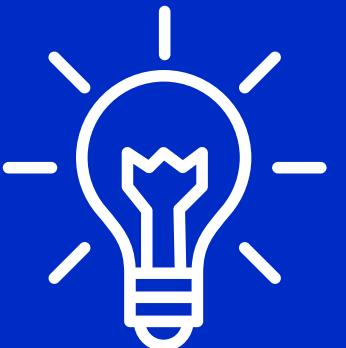
Objective 1

- AI-powered platform for automated candidate evaluation



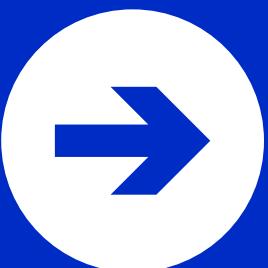
Objective 2

- Multi-criteria scoring system (skills, experience, education, soft skills)



Objective 3

- Real-time analytics and ranking dashboard



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Technical Architecture

- Frontend: React + Tailwind CSS + Vite
- Backend: FastAPI + Python + Railway deployment
- AI Engine: SpaCy NLP + Custom scoring algorithms
- Database: PostgreSQL/SQLite with SQLAlchemy ORM
- Integration: RESTful APIs with LMS compatibility



Key Features



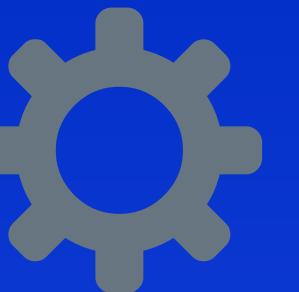
Multi-format
resume
processing
(PDF/DOCX)



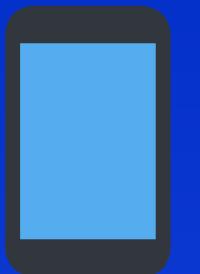
Intelligent
skills
extraction
and
scoring



Real-time
candidate
ranking
dashboard



Customizabl
e evaluation
criteria



Responsive
design for
all devices



Advanced
analytics
and
reporting

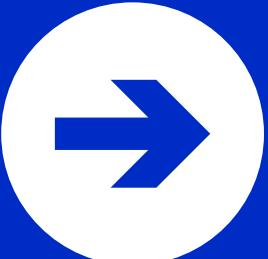
AI & Algorithm Innovation

- Natural Language Processing for resume analysis
- Multi-criteria decision analysis (MCDA) scoring
- Weighted scoring system (technical 30%, experience 25%, education 20%, etc.)
- Pattern recognition for candidate quality prediction
- Continuous learning capability

10%

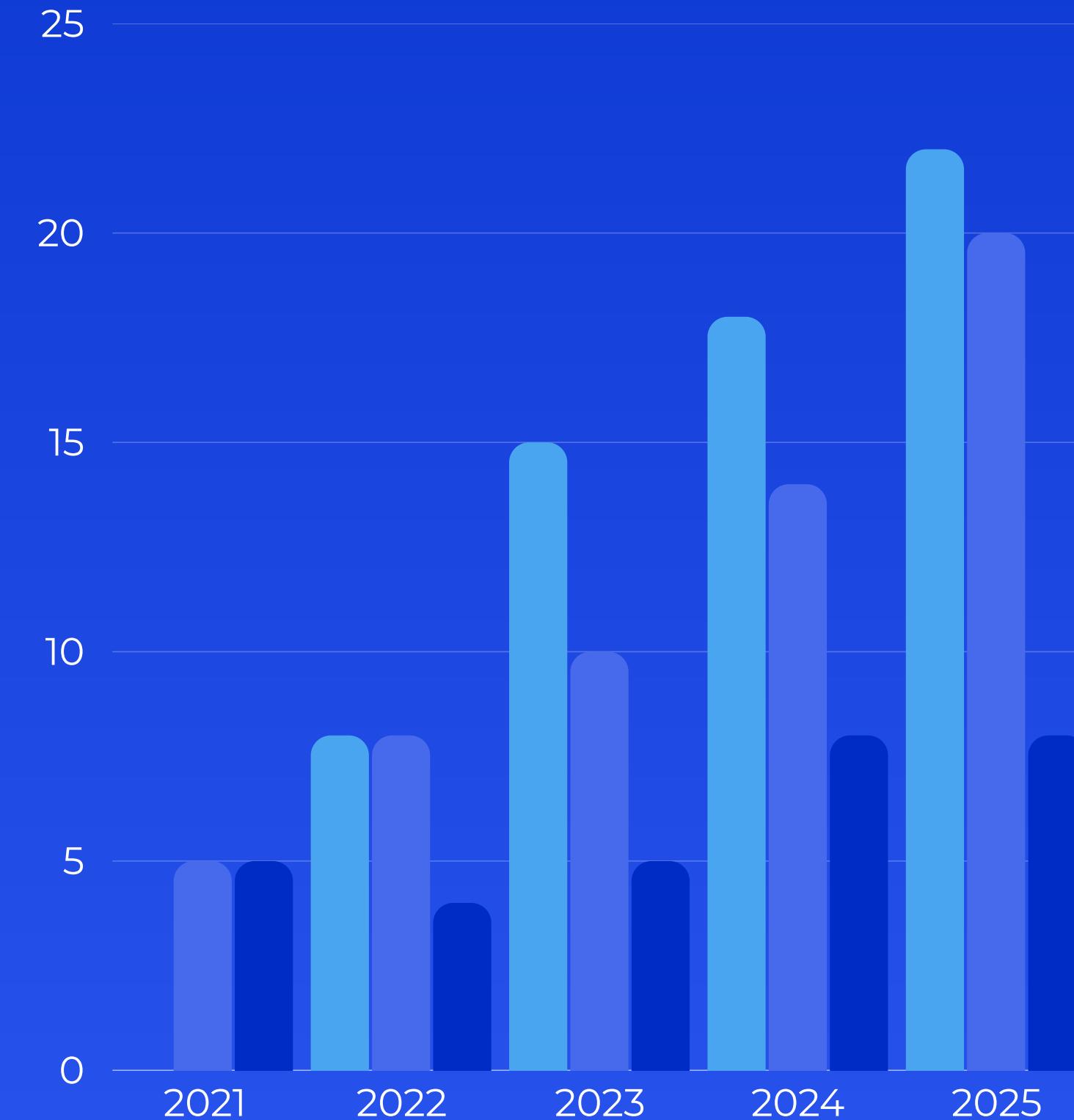
20%

70%

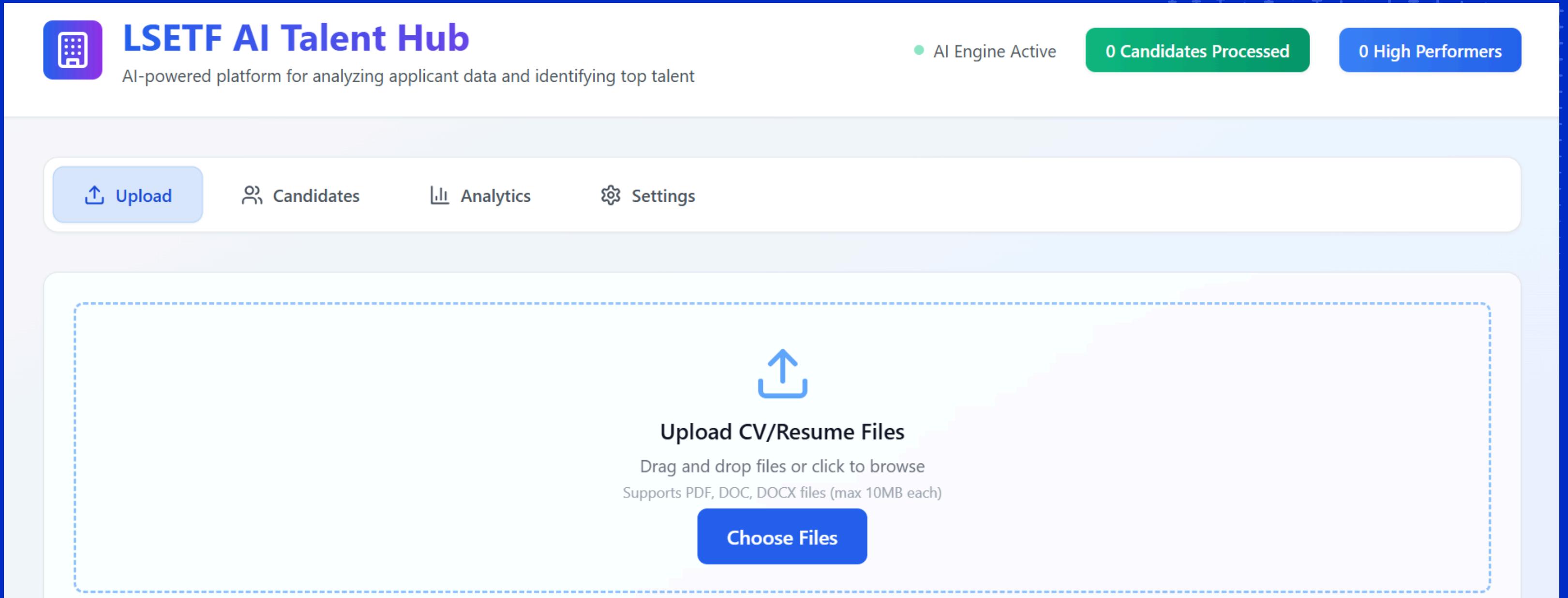


Impact on Nigeria's Tech Ecosystem

- Democratizes opportunities through objective evaluation
- Identifies hidden talent across Nigeria's regions
- Reduces selection bias and increases fairness
- Scales with Nigeria's growing tech population
- Supports LSETF's mission of human capital development



DEMO SCREENSHOT



LSETF AI Talent Hub
AI-powered platform for analyzing applicant data and identifying top talent

AI Engine Active 0 Candidates Processed 0 High Performers

Upload Candidates Analytics Settings

Upload CV/Resume Files
Drag and drop files or click to browse
Supports PDF, DOC, DOCX files (max 10MB each)

Choose Files

DASHBOARD : File upload process with drag-and-drop



Technical Implementation Highlights

01

Built with scalability and performance in mind

02

94.2% accuracy in candidate matching

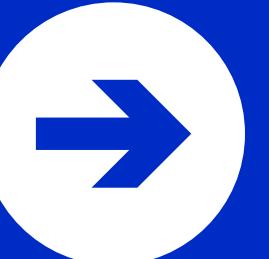
03

Handles 1000+ concurrent applicants



Future Roadmap

- Phase 2: Video interview analysis with behavioral assessment
- Phase 3: Predictive analytics for program success rates
- Phase 4: Multi-language support (Yoruba, Igbo, Hausa)
- Phase 5: Blockchain credential verification
- Phase 6: Mobile application development



Wardiere, Inc.

Call to Action & Links

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 <https://github.com/Cdasilver29/AI-Driven-Applicant-Selection-Tool-for-LSETF-PLP-Nigeria-Hackathon.git>

Team



Calvine Dasilver

Project manager

Thank You

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