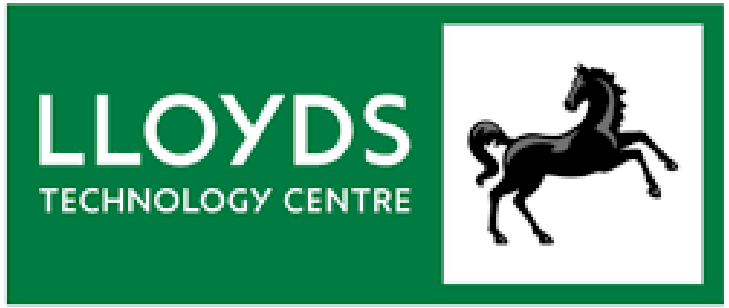
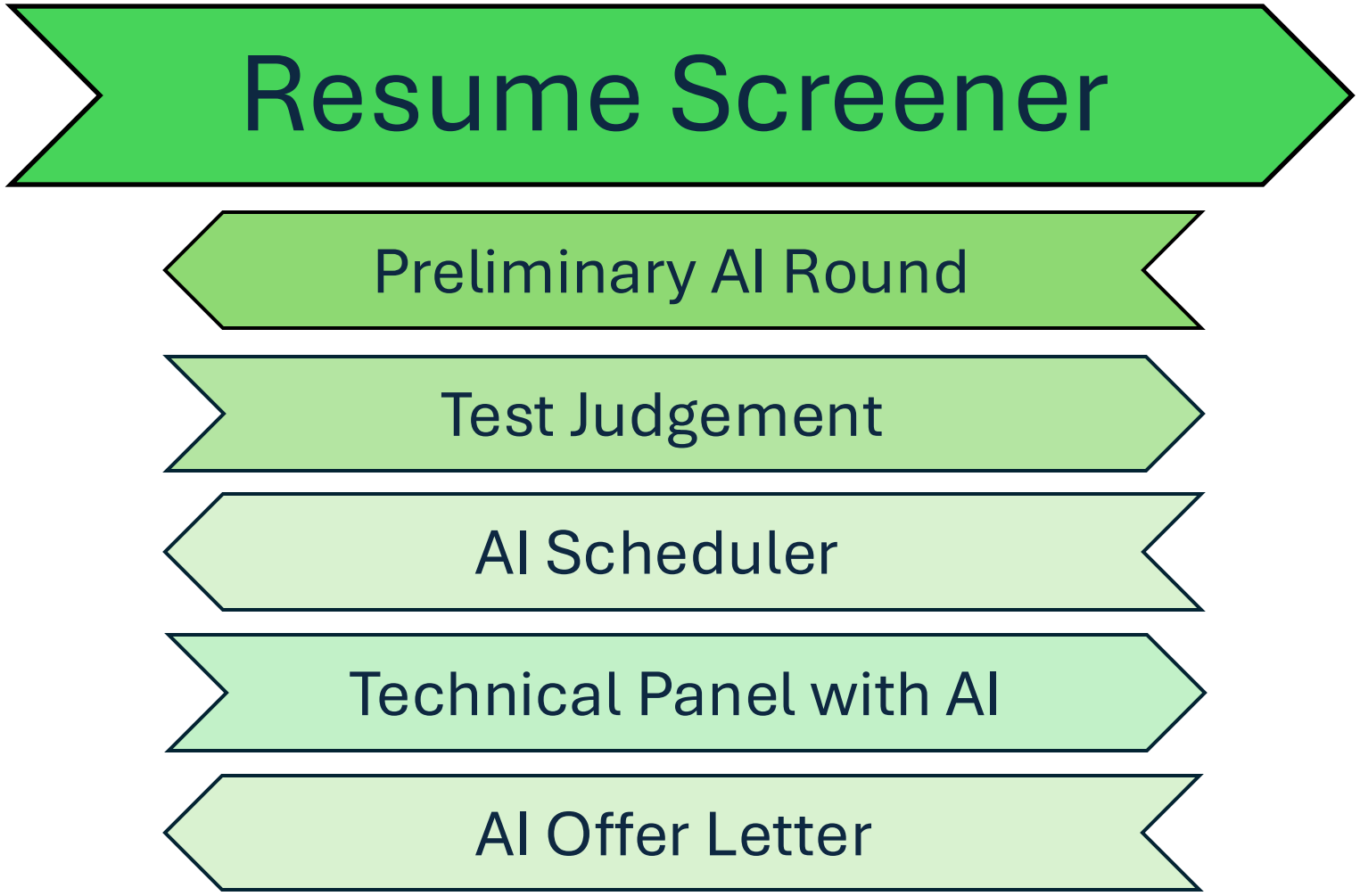
Revolutionizing Recruitment:

AI Resume Screening



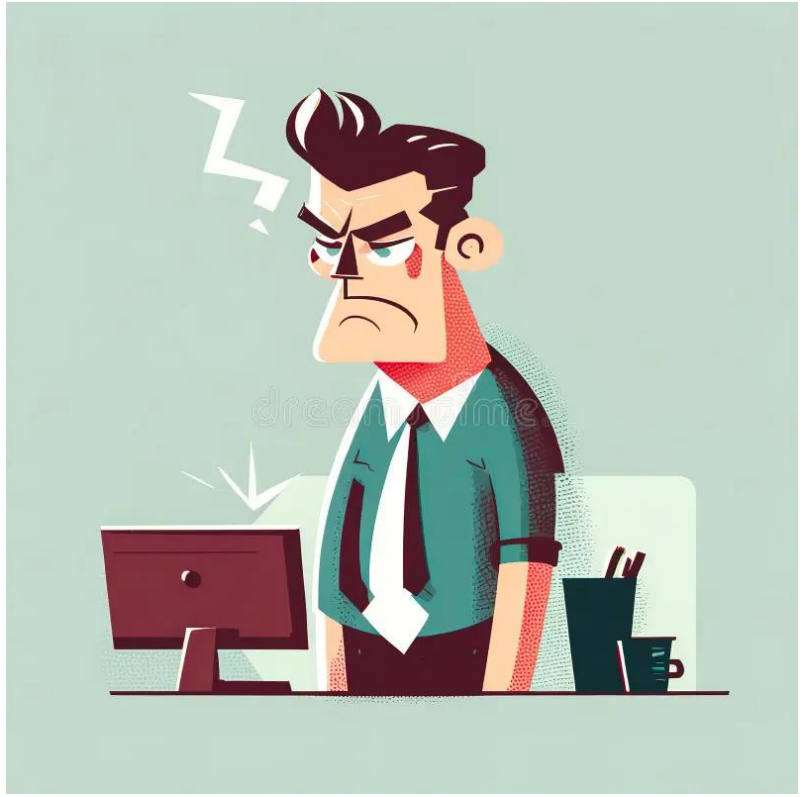
Team Hire Hounds

AI in Hiring


Resume Screener
Preliminary AI Round
Test Judgement
AI Scheduler
Technical Panel with AI
AI Offer Letter

Challenges

- Time consuming
- High volume of application
- Bias in the screening process
- Difficulty in identifying relevant skills



Benefit of AI in Resume Screening

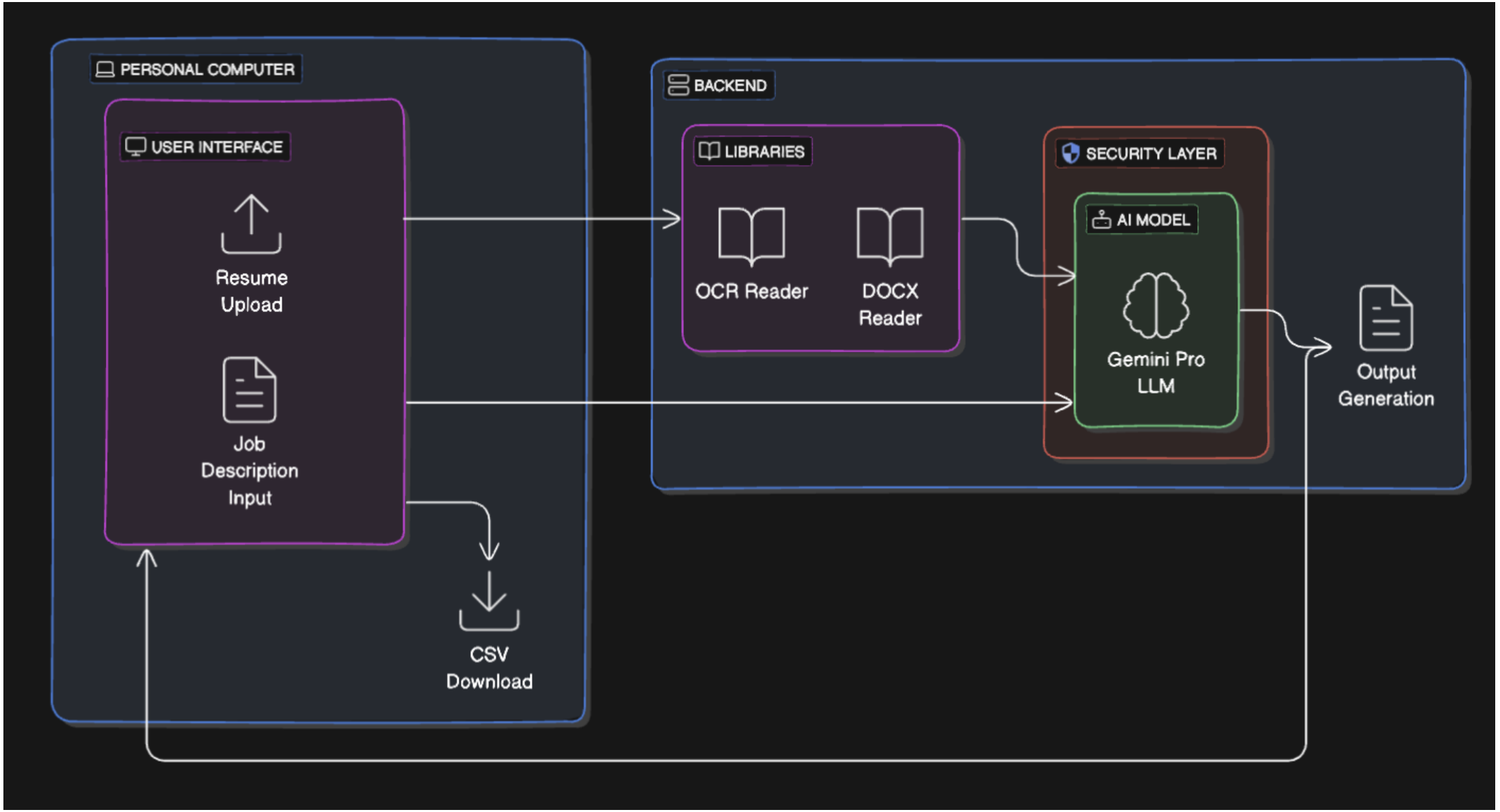
Increased effiiency and reduced time to hire

Consistent and unbiased screening

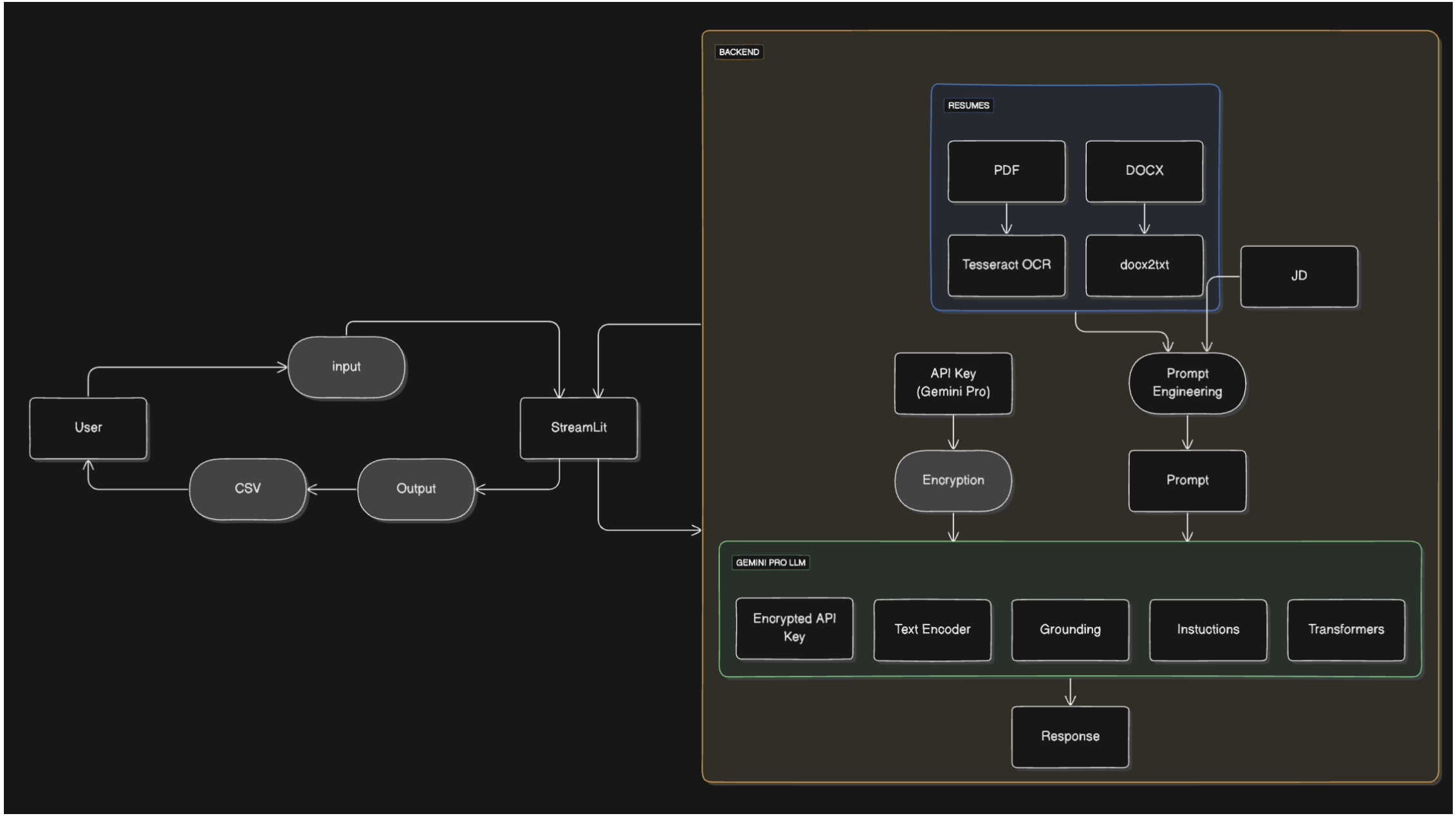
Ability to handle large volume of application

Enhanced focus on candidate skil and job fit

Workflow


PERSONAL COMPUTER
USER INTERFACE
Resume Upload
Job Description Input
CSV Download
BACKEND
LIBRARIES
OCR Reader
DOCX Reader
SECURITY LAYER
AI MODEL
Gemini Pro LLM
Output Generation

Architecture Diagram



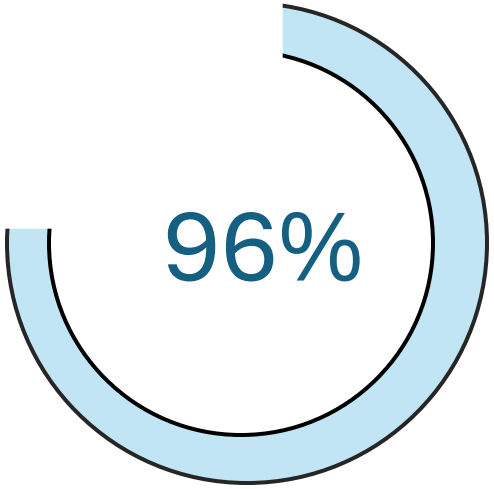
Demo Video

- Video

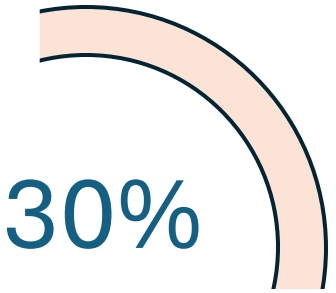
Accuracy

	PDF	OCR
accuracy_name	80.000000	73.333333
accuracy_email	93.333333	73.333333
accuracy_number	100.000000	100.000000
accuracy_qualification	46.666667	66.666667
accuracy_role	33.333333	60.000000
accuracy_years	13.333333	13.333333
accuracy_percentage	60.000000	60.000000

Key Insights



Reduction in screening time



Increase in candidate fit

Security and Guardrails

Security Guardrails:

- Data Curation: Google carefully selects and filters the training data to minimize the presence of harmful, biased, or sensitive content.
- Toxicity Filtering: Techniques like reinforcement learning from human feedback (RLHF) and adversarial training are used to teach the model to recognize and avoid generating toxic or harmful outputs.

Runtime Protections:

- Output Filtering: Generated outputs are filtered to ensure they comply with safety guidelines and do not contain harmful, biased, or sensitive information.
- Safety Classifiers: Machine learning models are used to assess the risk level of generated content, allowing for automatic flagging or blocking of unsafe outputs.

Technical Guardrails:

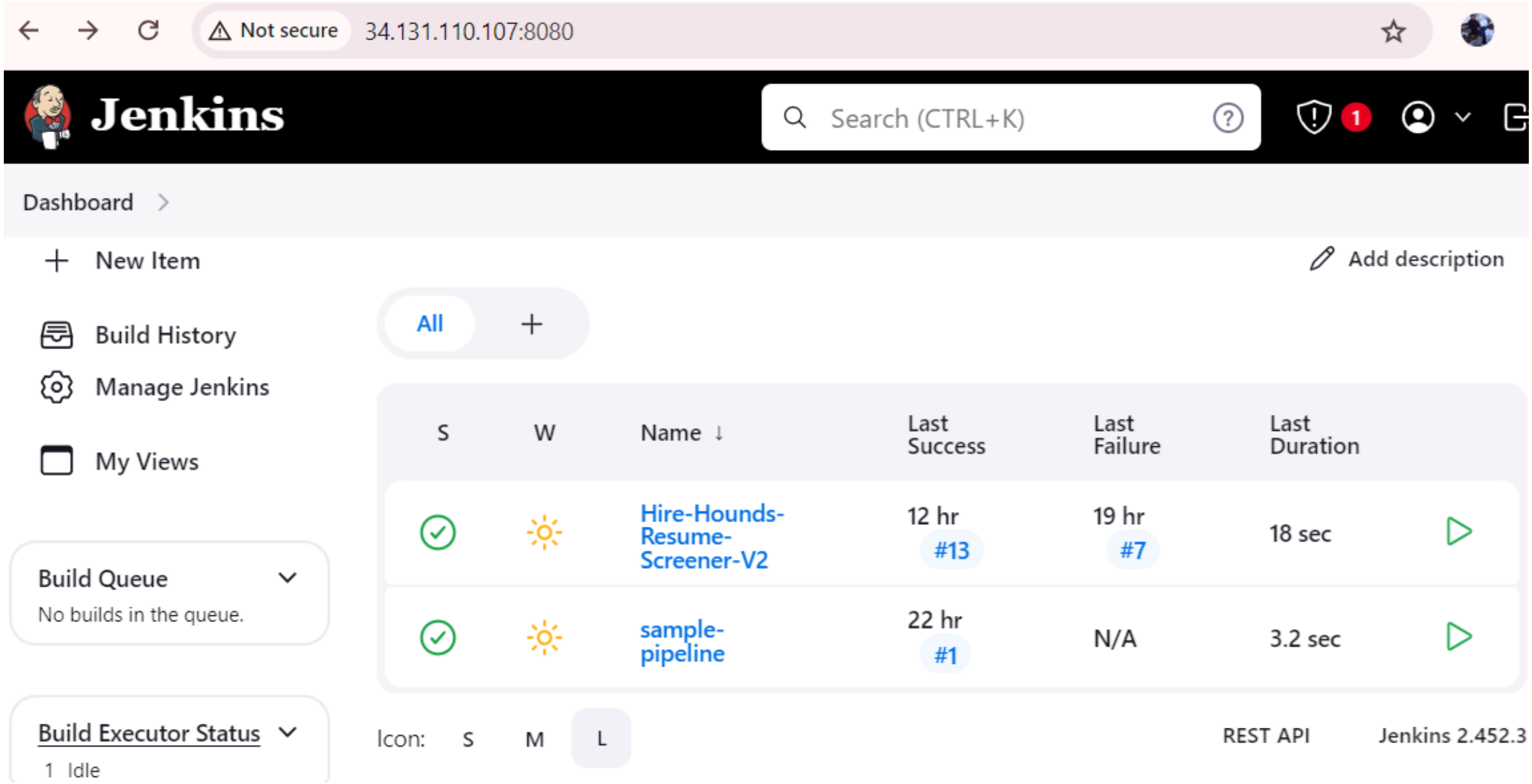
- Error Handling: Gemini Pro is designed to handle errors gracefully and recover from unexpected inputs or conditions.
- Monitoring: Google closely monitors the model's performance and behaviour to detect and address any technical issues or vulnerabilities.
- Privacy and Security:
- Security Best Practices: Gemini Pro is built with industry-standard security measures to safeguard against unauthorized access and data breaches.

Future improvements

1. Enhanced Accuracy and Intelligence
2. Expanded Functionality
3. Integration with HR Systems
4. User Experience Enhancements
5. Advanced Technologies

Deployment

- Deployment


Not secure
34.131.110.107:8080
Jenkins
Search (CTRL+K)
1
Dashboard
New Item
Add description
Build History
Manage Jenkins
My Views
All
S
W
Name ↓
Last Success
Last Failure
Last Duration
Hire-Hounds-Resume-Screener-V2
12 hr #13
19 hr #7
18 sec
sample-pipeline
22 hr #1
N/A
3.2 sec
Build Queue
No builds in the queue.
Build Executor Status
1 Idle
Icon: S M L
REST API
Jenkins 2.452.3

Script ?

```
pipeline {
    agent any
    stages {
        stage('Example') {
            steps {
                sh "git clone https://github.com/gtharun04/Resume-Screener"
                sh '''
                    echo "
                        echo 'Startup script started'
                        sudo su
                        sleep 3s
                        sudo apt install git -y
                        git clone https://github.com/Reboot-2024/reboot-hackathon-2024
                        ls -altr
                        pwd
                        cd reboot-hackathon-2024
                        pwd
                        sudo apt install python3-pip -y
                        sudo apt-get install tesseract-ocr -y
                        echo 'Startup script stage 1'
                        sudo apt install python3.11-venv -y
                        python3 -m venv my_env
                        source my_env/bin/activate
                        echo 'Startup script stage 2'
                        pip install -r requirements1.txt
                        sleep 3s
                        streamlit run app.py &
                        echo 'Startup script ended'
                    " >> myinstallation.sh
                    chmod 777 myinstallation.sh
                    dos2unix myinstallation.sh
                    ls -altr

                   '''
                sh "gcloud compute instances create sample-ravis-vm9 --zone=asia-south2-c --machine-type=n1-standard-

            } // end of steps
        } // end of stage
    } // end of stages

    post {
        always {
            cleanWs()
        } // end of always
    } // end of post
} // end of pipeline

```

GIT-HUB URL

https://github.com/Reboot-2024/reboot-hackathon-2024

Resources

Streamlit: https://docs.streamlit.io/

Google document: https://support.google.com/docs/answer/14206696?hl=en

Gemini document: https://promevo.com/blog/google-gemini-connection-with-docs

Gemini security link : https://support.google.com/gemini/answer/13594961?hl=en