



- Problem Statement ID : PS-9
- Team Name : OOPS
- TEAM ID : HK-103
- TEAM MEMBERS :
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## Problem & SOLUTION

### Problem:

1. Recruiters must open **GitHub, LinkedIn, Notion, Certificates** separately
2. No single system shows **actual skill depth**
3. Hard to compare candidates objectively
4. Resumes show claims, not real capability
5. Students struggle to present learning journey clearly

### Solution:

A unified skill intelligence platform that converts student activity into an interactive 3D knowledge graph

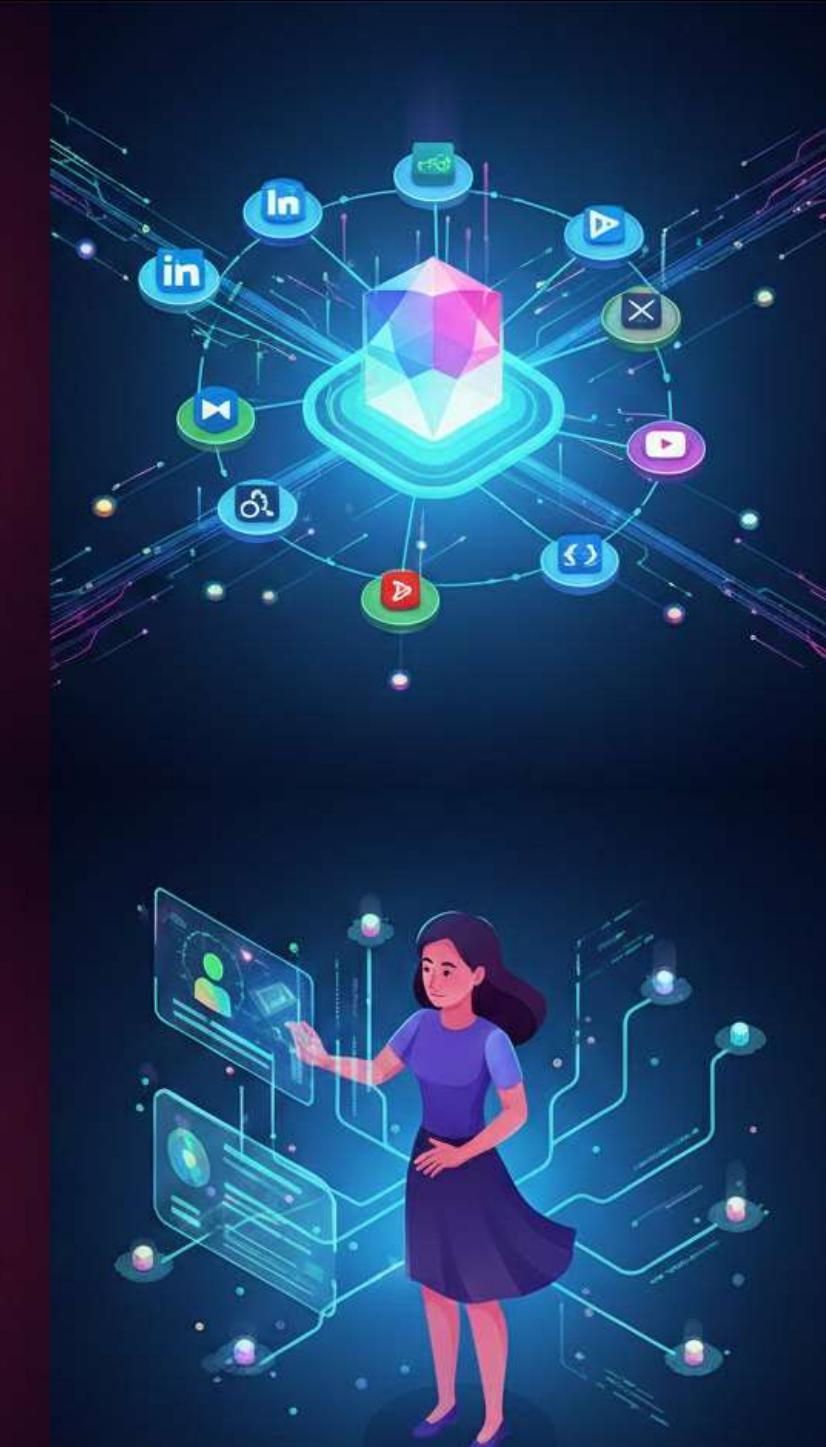
1. Aggregates GitHub + learning platforms
2. Extracts real skills automatically
3. Visualizes learning progression
4. Recruiter-ready evaluation dashboard
5. One shareable Skill ID profile



Problem to solution

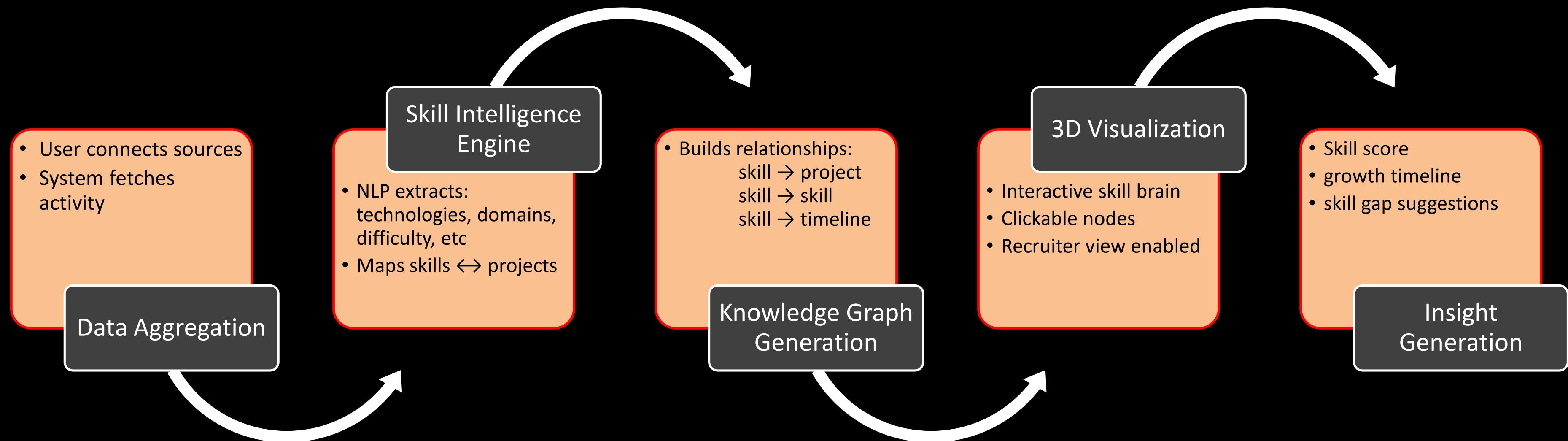


Solution to Reality



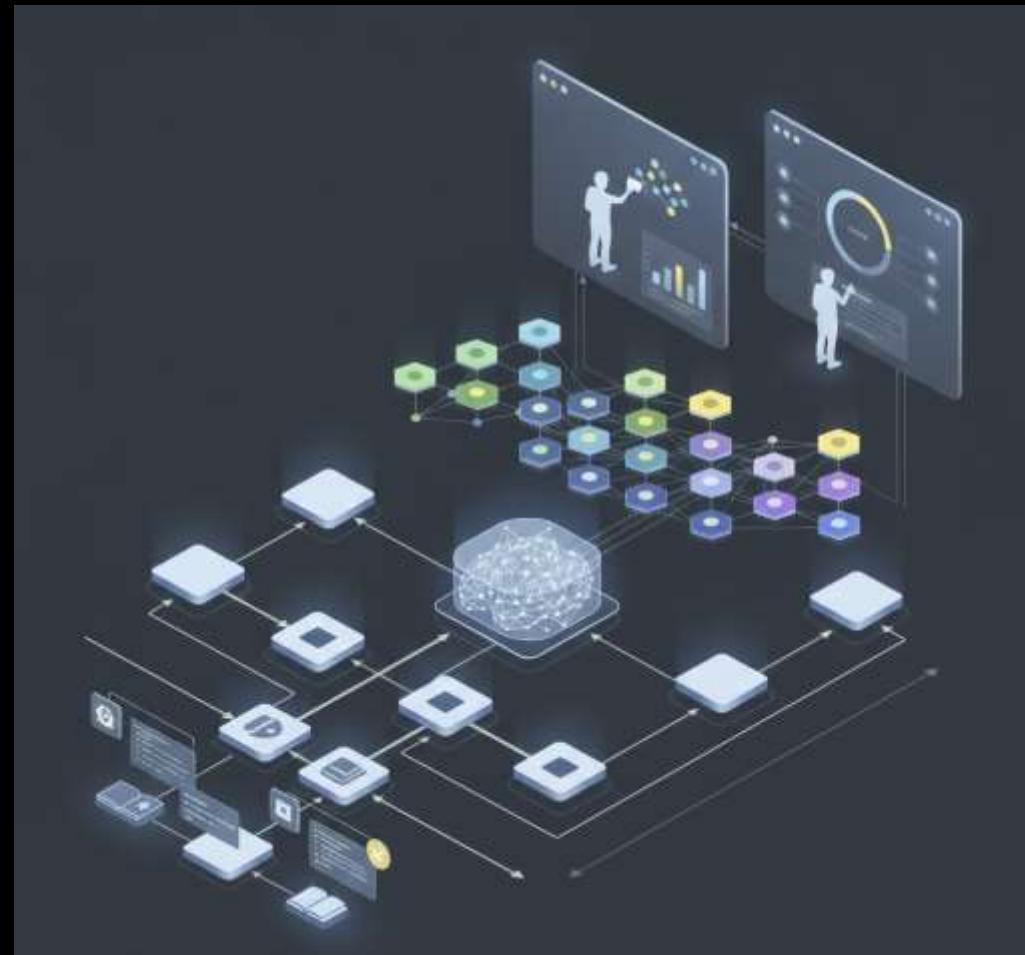


## Flow of Solution

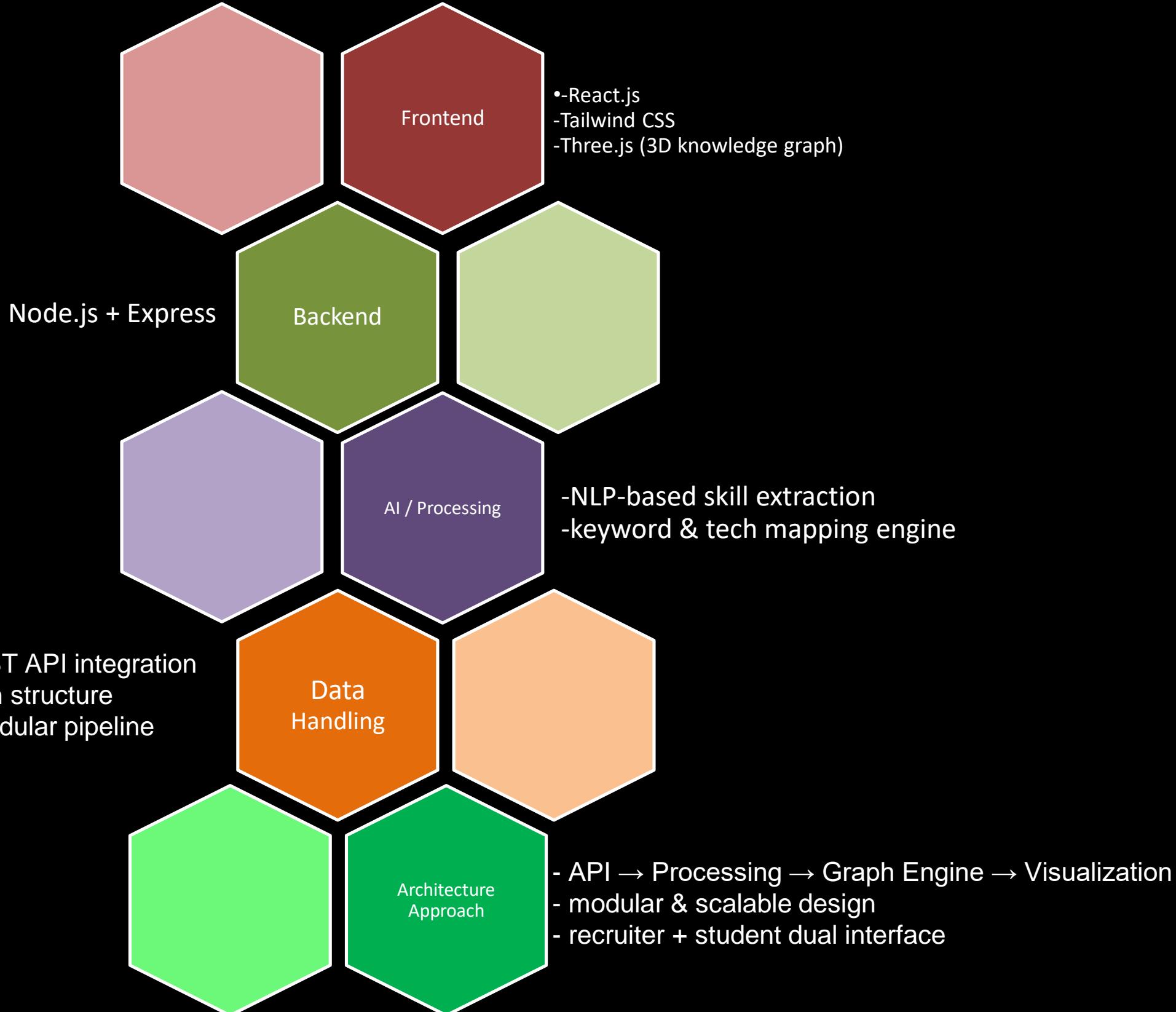




## TECH STACK & APPROACH

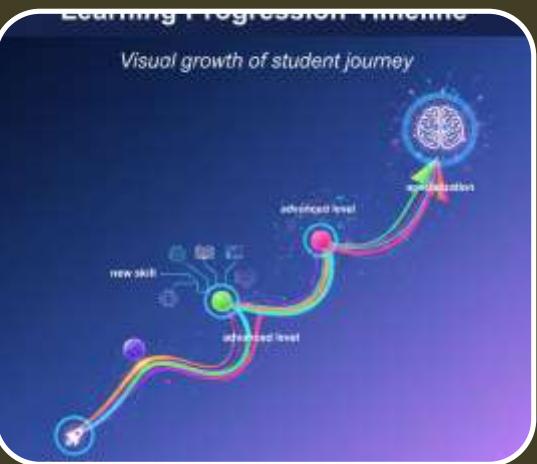


- GitHub REST API integration
- JSON graph structure
- scalable modular pipeline





## UNIQUENESS & INNOVATION FACTOR



### Skill Intelligence Graph

Not a portfolio  
but a **live learning brain**

### Automated Skill Detection

Extracts skills from:  
• Code  
• Readme  
• Project tech stack

### Recruiter Evaluation Mode

- skill score
- domain strength
- project relevance

### Learning Progression Timeline

Visual growth of  
student journey

### Skill Gap Detection

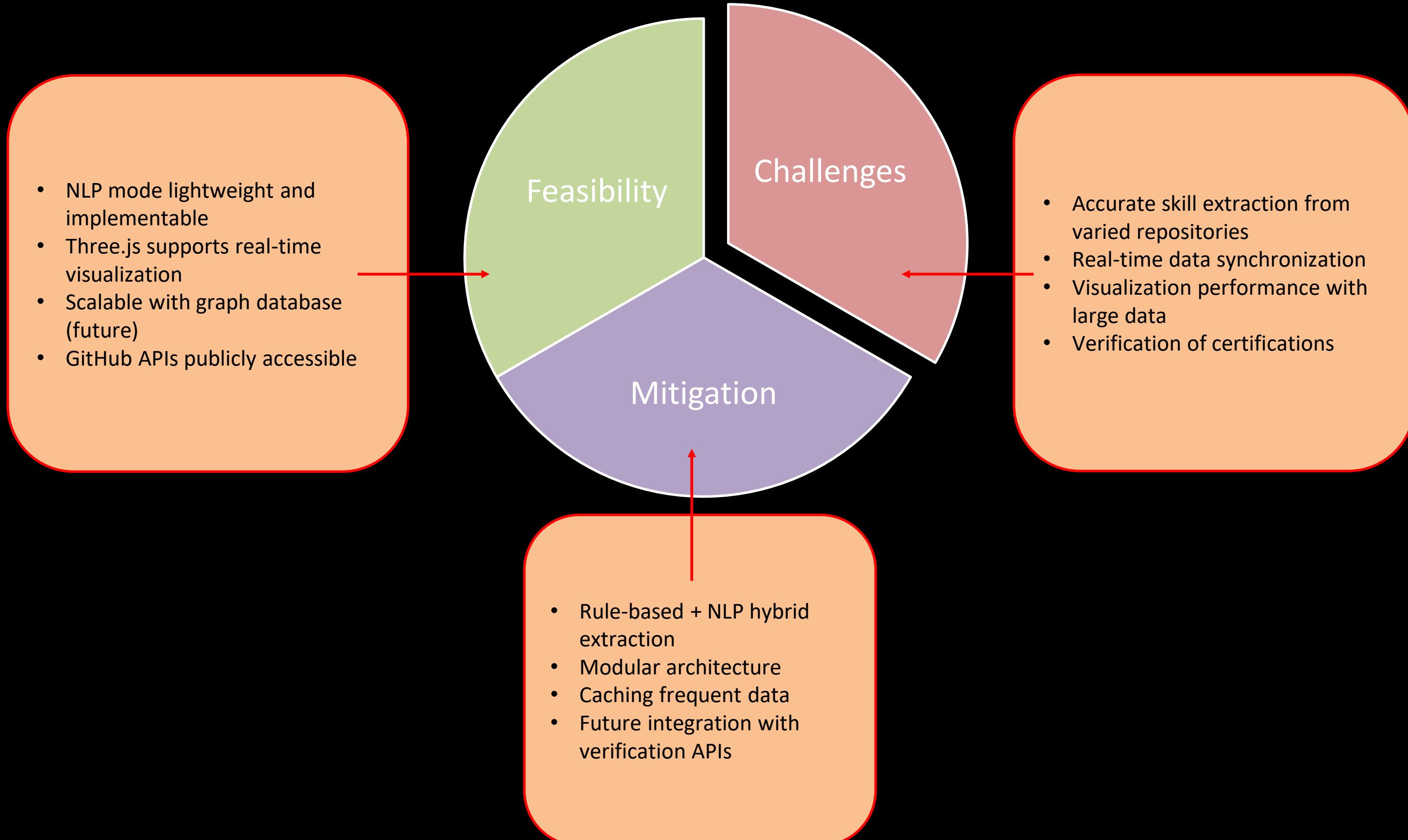
Suggests next  
technologies to  
learn

### Competitive Learning Extension

- streak system
- XP model
- continuous skill evolution



## FeASiBility & ChAllenGeS





## ReSeARCh & RefeRenCe

### Research Areas

- Knowledge graph systems in education
- Developer portfolio evaluation methods
- Skill analytics in hiring tech
- Graph visualization models

### Technologies Referenced

- GitHub Developer API
- Three.js visualization engine
- NLP skill extraction models
- Graph database concepts (Neo4j)

### Industry Inspiration

- Developer hiring platforms
- Skill intelligence tools
- Learning analytics systems