

# S<sup>3</sup> - Škoda Smart Stream

AI-Powered Learning & Development Platform

Hackathon AI Skill Coach | 42 Prague x 42 Heilbronn



## FOR EMPLOYEES:

Overwhelming catalogs,  
Unclear paths



## FOR EMPLOYEES:

Overwhelming catalogs,  
Unclear paths



## FOR HR MANAGERS:

Limited visibility,  
No data,  
Manual assignment

# The Challenge

## For Employees

- Overwhelming course catalogs (10,000+ courses)
- Unclear skill gaps and development paths
- No personalized learning recommendations
- Difficulty connecting skills to career goals

## For HR Managers

- Limited visibility into team skill levels
- No data-driven approach to L&D planning
- Difficulty identifying critical skill gaps
- Manual, time-consuming course assignment

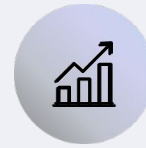
# Our Solution

S<sup>3</sup> connects employee skill data with job requirements and career goals using AI-powered analytics



## Personalized Development Plans

AI-powered recommendations based on skill gaps, role, and career goals



## Skill Gap Analysis

Visual "Swiss Cheese" profiles showing strengths and areas for improvement



## Manager Dashboard

Comprehensive analytics for team development planning and training optimization



## Intelligent Course Discovery

Semantic search across 10,000+ courses with AI-powered matching



# Key Features

## For Employees

- Personalized Learning Feed
- Skill Gap Visualization
- Course Recommendations
- Progress Tracking
- Advanced Search & Filters

## For HR Managers

- Employee Search with Filters
- Analytics Dashboard
- Department Overview
- Module Assignment
- Learning Analytics

# Comprehensive Data Integration

We use ALL provided data sources from the Škoda ecosystem

## Employee Data

Employee profiles, roles,  
education background

## Training History

Course completions from  
Legacy LMS and extended  
records

## Degreed Platform

External learning platform  
data and course catalog

## Skill Mapping

Course-to-skill mappings  
and competency data

## Role Requirements

Role-specific responsibilities  
and requirements

## Organization Data

Department structure and  
organizational relationships

# AI-Powered Intelligence

Advanced AI and data analytics at the core of our solution



## Semantic Matching

TF-IDF embeddings for intelligent course matching and recommendations



## Multi-Language Processing

Automatic Czech-to-English translation for data unification



## Skill Gap Detection

AI-powered inference of skill levels from learning history



## Intelligent Categorization

Automatic course categorization using keyword analysis



# By The Numbers

10,000+

Courses Available

215

Employees

296

Job Descriptions

100%

Data Sources Used

8

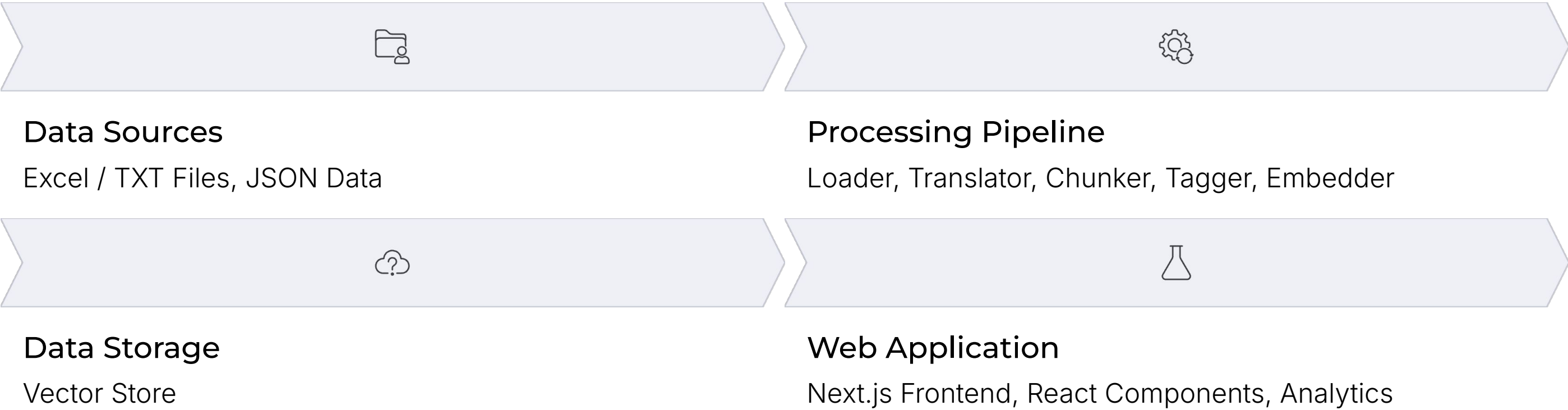
Data Sources  
Integrated

3

Languages  
Supported

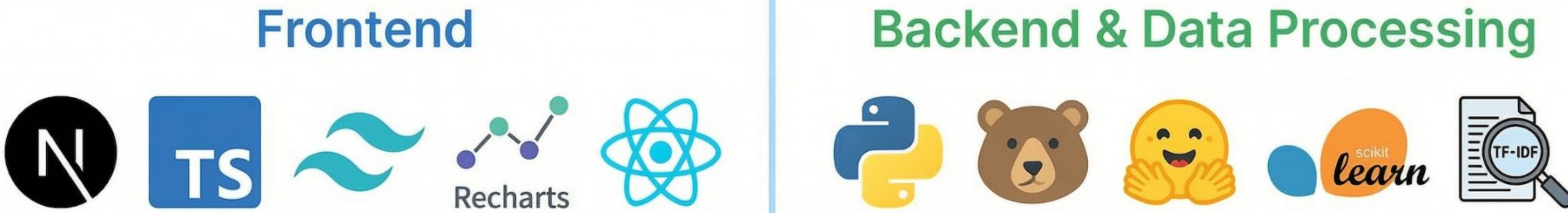


# System Architecture



**Modular, scalable architecture ready for production deployment**

## Technology Stack







# Impact & Value Proposition

## For Employees

- Reduced time to find relevant courses
- Clear understanding of skill gaps
- Personalized learning paths
- Career development support

## For Organization

- Data-driven L&D decisions
- Optimized training investments
- Skill-based workforce planning
- Continuous learning culture

Supporting Škoda's vision: "A culture where lifelong learning is supported and valued"



# Thank You

## Questions?

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<https://89.168.52.201/skoda/>

