AI-Powered Skill Gap Identification and Personalized Learning Pathways

Client:

Client: Our client is an eminent leadership skilling solutions provider recognized the need to streamline their process of identifying skill gaps to provide targeted training solutions.

Business Challenge:

Our client faced challenges to identify skill gaps across all levels of leadership including managers &C-suite. They wanted to automate their process to improve accuracy and complement their manual efforts with data-driven insights. Other challenges are:

Difficulty in analyzing human-assisted data accurately to identify skill gaps.

The need to generate personalized learning pathways for leaders at all levels.

Inefficiency in the existing skill gap architecture for leadership development. Modify the skill gap architecture and achieve more effective and efficient leadership development.

Solution Delivered:

CG-VAK helped the client create an AI-based automated competency assessment environment to address their need for accurate skill gap identification and personalized learning pathways. The AI models evaluated existing data and identified issues related to behavioral assessments and coaching. We employed centralized AI-based evaluation, using language transformers to collect performance data from multiple sources and recommend learning courses for reskilling and upskilling.

We trained a single AI model was trained to evaluate and rate various employee behaviors, reducing costs and training time. The AI model's results have a strong correlation with those provided by trained human assessors.

Business Benefits:

The client was highly satisfied from the business outcome it received.

- 🖳 Improved user engagement and satisfaction
- 🕴 Streamlined navigation for media assets and eLearning platform
- ⚙ Simplified complex courses
- 🗒 Highly responsive content distribution
- 🔬 Consistency across micro lesson tutorials
- 📊 Faster loading times for tutorials
- 📑 Achieved better management of learning assets
- ⏱ Accelerated training and learning workflow

Technologies Used:

PyTorch Lightning

ROBERT

django

aws

NLP

python™

Data Science

Harness the power of AI to accurately identify skill gaps and deliver personalized learning pathways tailored to your organization's needs.

We make your business operations easier to handle in real-time.

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