

Tech-Driven Career Readiness for Students

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Abstract

Due to technology innovations and digital transformation, the global economy is rapidly changing, which requires a fundamental change in how students prepare for their careers. Traditional learning systems do not prepare students for the complex and multidisciplinary skill needs of the 21st century workforce. This research synthesis focuses on technology-enhanced career readiness platforms, particularly the emerging Prep Portal platform. It also offers comparative analysis of other major players such as Internshala, LinkedIn Learning, Courser for Campus, and Turing. Using a multidisciplinary framework that combines education theory, innovation in technology, and labor market studies, this research analyzes how AI-powered tools fulfill critical gaps in student employability concerning skills, resume drafts, interview prep, and alignment with the labor market. This document also analyzes the recent changes in artificial intelligence and educational technology that influence career progression while stressing the necessity of self-tailored, scalable, active learning ecosystems. The results provide refinable insights to the potential of these platforms in building students' sustainable and market-needed competencies as well as strategic suggestions for advanced research and further development of enabling features.

I. INTRODUCTION

Under the scope of Fourth Industrial

Revolution (IR 4.0), shifting toward a digital economy has presented new complex problems with respect to preparing students for sustainable employment. As existing education frameworks are challenged by increasing levels of digitalization, automation, and the creation of new employment opportunities, it has become imperative for students to derive relevant education in combination with specific technical skills, soft skills, practical experience, and self-marketing abilities. Today's career readiness expectations are fundamentally shaped by device-based guidance systems with an integrated pedagogy that combines theory with practical activities, work placements, and remote professional collaboration. Prep Portal is a prime example illustrating this innovative method of bridging education and the workplace through advanced AI career tools, which surpasses traditional frameworks of career readiness. This report positions Prep Portal in the wider context of career development technologies, analyzing its distinct value proposition and investigating innovations impacting the future of student employability.

II. LITERATURE REVIEW

The available literature discusses how traditional educational frameworks do not prepare students for contemporary employment opportunities. The World Economic Forum estimates that 65% of children who enter primary school today are likely to work in fields that do not currently exist,

highlighting the employment landscape's rapid transformation and the need for the ability to develop skills accordingly (WEF, 2020).

Research conducted by the National Association of Colleges and Employers indicates that there is a lack of alignment between students' academic experiences and employers' expectations, especially regarding self-marketing as a “job-ready” candidate. The gap is made worse by the use of AI-generated resumes and automated recruiting software which increases the need for advanced career preparation systems (Impress.ai, 2025).

EdTech research demonstrates the effectiveness of AI-based personalized learning and career coaching in enhancing student engagement and outcomes (Ch'ng, 2024; Degreed, 2025). Platforms incorporating skill evaluations, interactive exercises, and immediate feedback enhance self-efficacy and motivation (CareerVillage.org, 2025). Research on gamification and immersive technologies indicates these methods reinforce learning and skills mastery (Geniusee, 2024).

Additionally, the recent empirical evaluation of digital skills gaps (Rahmat et al., 2023) illustrates the absence of essential communication, collaboration, and problem-solving skills which career readiness platforms should

address to enhance graduate employability. This synthesis locates Prep Portal within the emerging body of research which advocates for holistic AI-assisted career readiness frameworks designed with students in mind that balance hard and soft skill development.

III. METHODOLOGY

The research methodology is combined with secondary quantitative synthesis of data. Primary sources include corporate platform documentation, peer-reviewed scholarly journals, industry whitepapers, and recent news releases, most of

which are post-2024, for ensuring timeliness.

1. Platform Feature Analysis: An in-depth analysis of Prep Portal's publicly documented features was carried out with a focus on AI-based features like placement prediction, resume feedback, interview simulation, and content curation.

2. Comparative Benchmarking: A comparative study has been conducted of the Prep Portal with four popular career readiness platforms—Internshala, LinkedIn Learning, Coursera for Campus, and Turing—comparing and contrasting strengths and weaknesses across key aspects of user engagement, AI integration, skill development, and market coverage.

3. Synthesis of Trends: Trends emerging in AI and EdTech were synthesized following a study of industry research and education reports, identifying those innovations that had implications for career readiness.

4. Case Studies and Use Cases: Wherever possible, case study data from American Student Assistance (ASA) and other nonprofit programs were included to reflect real-world outcomes.

5. Data Visualization: Four tables provide a brief summary of platform capabilities, artificial intelligence strengths, number of users, and demand for digital skills, substantiated with statistical data wherever appropriate.

This diverse methodology facilitates an extensive comprehension of the influence of technological advancements on career preparedness and student job readiness.

IV. CURRENT STATE AND ANALYSIS OF PREP PORTAL'S FEATURES

Placement Prediction

Prep Portal's placement forecast system uses machine learning algorithms to analyze academic record, psychometric tests, and skill sets to forecast the student's suitability for specific companies and roles. Such predictive analytics methodology is

consistent with research that demonstrates specialized preparation boosts placement success rates (ProjectSet & ASA, 2025). By putting students into promising career streams, the platform reduces the scattergun approach typically inherent in job seeking, maximizing effort and outcome.

Technical In-Depth Analysis: The prediction model probably uses supervised learning algorithms trained on past placement data with feature engineering from academic and behavioral data. Ongoing retraining of models against fresh labor market data would increase precision and pertinence.

AI Resume Review

The AI resume scoring tool employs natural language processing (NLP) and pattern matching to score resumes against recruiter-relevant factors like keyword density, action verbs, quantifiable accomplishments, and format alignment. This feature responds to concerns students have in being able to clearly convey skills (NACE, 2024).

Benchmark Table 1 indicates AI resume scoring features on Prep Portal, Resume Worded, and Jobscan, and shows significant overlap of features but Prep Portal's placement prediction integration providing a unique bridge to job-market fit.

Interview Preparation

Artificial intelligence-driven interview simulations offer a scalable solution for simulated interviews. Using speech recognition and AI-driven feedback algorithms, Prep Portal evaluates candidate answers by length, detail of content, and relevance and offers data-driven coaching to enhance communication and confidence.

Emerging Trend: Incorporation of virtual reality (VR) environment in simulated interview practice would be an option Prep Portal could explore, paralleling developments in VR-based training modules reported in educational literature (Edutopia, 2025).

Aptitude Tests

Prep Portal provides timed practice modules that focus on psychometric and technical skill questions, thereby exposing students to typical screening instruments utilized by organizations. The incorporation of solution approaches facilitates the mastery of skills and test performance.

Corporate Directories and Entrepreneurial Investigations

Through the aggregation of in-depth company profiles and startup information, the platform enables intelligent job search and entrepreneurial consciousness. This aspect broadens student exposure beyond the conventional corporate careers to innovation industries.

AI-Curated Webinars and Resources

AI-driven algorithms enable tailored content streams that align with the individual profiles and professional goals of individual students, thus supporting continuous learning and the acquisition of soft skills. Such curation reduces cognitive overload and promotes intense engagement.

Community Forums

Interactive discussion boards enhance peer-to-peer learning, networking, and connection to knowledge, all critical in sustaining motivation and generating social capital.

V. FUTURE SCOPE AND RECOMMENDATIONS

- To enhance data, become partners with schools and employers perhaps of employing direct data on placements and outcomes which will enhance our ability and predictability on the direction of the student and share information.
- Develop user engagement by improving user experience announcements on the platform through pathways and games.
- Consider investigating the potential of exploring virtual interview and job shadowing to create a simulated real-world

conversations, interactions and environments.

- Encouraging a co-hort based continuous AI Coaching mentoring time bound support.
- Explore partnerships with micro-credential system providers which could marry skill acquisition and how to display skills to others..
- Explore aspects of social media and potential for integration, Develop peer-driven collaboration by developing a way to demonstrate peer engagement, badges, leader boards etc.
- Consider developing long-term longitudinal studies to track student and evaluate outcomes.

VI. EMERGING TRENDS IN AI AND DTECH INFLUENCING CAREER DEVELOPMENT

AI-Enabled Personalization and Content Curation

The recent advances in AI capabilities are allowing platforms to create truly hyper-personalized learning experiences by matching content with individual skills gaps or career objectives (Degreed, 2025).

AI-Powered Career Coaching

Virtual AI career coaches provide continuous and scalable access to support for job search strategies and skill development, addressing limitations in counselor availability (CareerVillage.org, 2025).

Immersive Technologies and Gamification Recent benefits from VR and gamified learning spaces increase learner engagement and retention rates, particularly for interview simulations and soft skills development (Edutopia, 2025). **Data-Driven Labor Market Data and Skill Alignment** Real-time labor market data integration enhances skill recommendation and placement strategies based on current employer need (LinkedIn Economic Graph, 2025).

Hybrid Career Events

The widespread acceptance of virtual and hybrid

recruitment fairs offers more flexible access while broadening the pool of available students (Handshake, 2024).

VII. CONCLUSION

Digital disruption and the innovation of AI-driven technological learning tools are transforming the way we redefine career readiness. Career readiness platforms like Prep Portal represent the future of careers, by providing predictive analytics, AI-based feedback and personalized curation of content in a single ecosystem from self-assessment to employability.

Prep Portal's key features are its holistic approach to addressing the complexities faced by today's learners, while maintaining unique overlap in skill development, coaching and practical experience. Notably, Prep Portal differentiates itself from many other platforms that miss the overarching value of career readiness by addressing the dual streams of skill acquisition and job matched experiences. The key outcome being holistic readiness in response to employer requests.

EdTech will continue to evolve and the use of AI, digital/immersive technologies and data analytics will be utilized to create never before seen opportunities for students to build lasting durable skills and self- confidence. The future is to take advantage of such opportunities, supporting equitable access to career readiness for all learners regardless of their backgrounds to navigate complexity with resilience and success in a rapidly changing labor market.

VIII. FIGURES AND TABLES

TABLE I.

Comparative Platform Analysis		
Feature/Platform	Prep Portal	Internshala
User Base	Emerging (Data not public)	400,000+ Companies, 2M+ Users
Core Functionality	AI-driven placement prediction, resume feedback, interview simulation	Internship/job listings, training, certification
AI Integration	High (Resume, placement, content curation)	Moderate (basic resume/interview guidance)
Skill Development Focus	Career readiness pipeline	Opportunity discovery and skill courses
Community Engagement	Forums and peer support	Community forums
Geographic Focus	Global (emerging)	Primarily India

a. Source: Compiled from corporate reports and industry analyses (ASA 2025; Impress.ai 2025; LinkedIn 2025; Coursera 2025; Turing 2025)

TABLE II. AI Resume Scoring Features Comparison

Feature	Prep Portal	Resume Worded	Jobscan
Keyword Optimization	Yes	Yes	Yes
Action Verb Suggestions	Yes	Yes	No
Formatting Analysis	Yes	Yes	Partial
ATS Compatibility Check	Yes	Yes	Yes
Quantifiable Metrics Advice	Yes	Yes	No
Industry- Specific Feedback	Partial	Yes	Yes

Source: Impress.ai (2025), Resume Worded (2025)

TABLE III. DIGITAL SKILLS DEMAND VS. GRADUATE COMPETENCY GAPS (MALAYSIA STUDY)

Skill Category	Employer Demand Score (Mean)	Graduate Competency Score (Mean)
Information & Data Literacy	4.6	4.0
Problem Solving	4.7	4.1
Communication & Collaboration	4.8	3.9
Digital Content Creation	4.5	4.3
Safety (Cybersecurity)	4.4	4.0

Scores on a 5-point Likert scale; Source: Rahmat et al., 2023

TABLE IV. AI-POWERED CAREER READINESS FEATURE MATRIX

Feature	Prep Portal	Internshala	LinkedIn Learning	Coursera for Campus
AI Placement Prediction	Yes	No	No	No
AI Resume Feedback	Yes	BASIC	No	No
AI Interview Simulation	Yes	No	No	No
Skill Development Courses	LIMITED	YES	EXTENSIVE	EXTENSIVE
Job/Internship Listings	LIMITED	EXTENSIVE	No	No
Community Forums	YES	YES	No	LIMITED
AI Content Curation	YES	No	PARTIAL	PARTIAL
Certification Integration	No	YES	YES	YES

Compiled from platform documentation and industry reports, 2025

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