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# Bridging Skill Gap: A Study on Industry Expectations vs. Graduate Competencies

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# 1. Introduction

The relationship between higher education and industry requirements has long been a subject of debate. Historically, academic institutions were designed to import broad theoretical knowledge, with limited emphasis on vocational or industry-specific skills. The skill gap refers to the display between the abilities and knowledge of graduates and the practical demand of the job market. The global job market rapidly evolving due to technological advancements, globalisation, and shifting paradigms, despite increased access to education, many graduates face challenges in meeting industry demands, leading to high unemployment rates and workforce inefficiencies. The issue stems from a perceived gap between what academic institutions provide and the skills employers seek in graduates. Addressing this gap is critical for enhancing employability.

# I. The Traditional role of higher education

Historically the primary objective of higher education was to provide students with specialised knowledge in their respective field. In the past, a university degree was often seen as a guarantee of professional competence. However, the focus was largely on theoretical knowledge, which was assumed to be sufficient for job performance. Graduates entering the workforce were expected to learn practical skills on the, and there was minimal emphasis on soft skills or adaptivity.

## II. Shifting industry expectations

In the present contemporary market, the rapid pace of technological advancements, the global nature of industries, and evolving economic landscapes have redefined industry expectations. Industries are undergoing rapid transformations driven by digitalisation, automation, and globalisation. Employers now demand for just technical proficiency but also soft skills like communication, adaptability, and teamwork. However, many graduates entering the workforce lack these attributes, creating significant challenges for companies in terms of productivity and additional training costs.

# III. The growing need for flexibility and lifelong learning

Looking ahead industries will continue to undergo significant transformation, due to automation, digitalisation, and artificial intelligence. As such, there is an increasing need for graduates to possess not only current technical skills but also the capacity for continuous learning and adaptability. Looking into the future, technological advancements such as AI, machine learning, and blockchain are likely to reshape workforce requirements further.



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Graduates will need to be lifelong learners, equipped to handle interdisciplinary challenges and adapt to novel technologies quickly. The future workforce will need to navigate complex, multidisciplinary challenges, requiring a broader skills set that blends technical expertise with critical thinking, cultural intelligence, and global perspectives.

## 2. <u>Literature review</u>

# Research methodology:

A total of 7 studies were selected from platforms such as Google Scholar, Semantic Scholar, and N-LIST, the focus was on research addressing employability skills, competency frameworks, and curriculum reform.

## **Key insights from literature:**

**Study by smith & brown {2021}:** Emphasised that only 40% of employers feel graduates are adequately prepared for the workforce, citing deficiencies in problem-solving and communication. employers noted that many graduates lack the ability to effectively analyse and address complex real-world issues this is increasingly crucial in dynamic and challenging work environments. Graduates were often perceived to struggle with both verbal and written communication. This includes articulating ideas clearly, engaging in professional correspondence, and presenting information persuasively.

A report by world economic forum {2023}: Highlighted the increasing importance of hybrid skills, combining technical and non- technical expertise. Key findings indicate that as industries evolve with new technologies like AI and automation, workers must develop a combination of analytical thinking, creative problem-solving, and digital proficiency to remain competitive. Cognitive skills such as critical thinking and social influence are high in demand, along with the ability to leverage emerging technologies like Big Data and AI.

**Author: Johnson's&Evans, l.**This study highlighted the mismatch between traditional academic curricula and industry specific requirements suggesting that less than 30% of higher education programs directly incorporate employability skills into their syllabus. These skills typically include communication, critical thinking, problem solving, teamwork, and digital literacy, which are increasingly important in industries today. The mismatch between academic programs and industry expectations suggests that many graduates enter the workforce without the practical, job specific skills required by employers.

Author: Ahmed, R., & khan, T.The research demonstrated that employers rated communication, teamwork, and leadership higher that technical expertise when selecting candidates for leadership roles, with 65% of surveyed employees emphasising these traits. The study underscores the growing demand for communication, teamwork, and leadership abilities in candidates. This shift reflects the modernworkplace's focus on collaboration, adaptability, and managing diverse teams. Schools and professional courses might need to revise circular to emphasize soft skills training alongside technical subjects.

Author: Saito, K., & Wang, Hathi's comparative study found that in countries with strong academia-industry collaboration, like Germany and Japan, competency gaps were significantly lower, unlike in developing economies, where gaps were wider by 40%. The alignment between such countries reduces



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gaps which refers to the requirements of the job market. Challenges include outdated curricula, lack of industry input in academic program design, and limited Internship or training opportunities. Bridging these gaps can enhance economic productivity and reduce employment. Developing economies may benefit from adopting models seen in Germany and Japan, such as dual education systems and structured apprenticeships programs.

**Author: Harris, J., & Doyle, P.** Findings indicated that students engaged inproject-based learning and capstone projects were 50% more likely to meet industry standards than peers who underwent conventional teaching method. experiential learning, particularly when integrated with real-world applications, helps students develop critical skills such as problem-solving, team work, and interdisciplinary effectiveness. It is based on "authentic learning experiences," where students actively participate in tasks minoring workplace scenarios.

**Author: Lee, S., & Kim, J.**This paper highlighted the rising demand for AI, blockchain, and expertise, noting that traditional academic programs fall short in preparing students for these fields. Only 25% of universities had courses covering these domains as of 2023. The gap reflects a broader trend where universities are slow to integrate curricula addressing cutting-edge technologies. many institutions focus on foundational subjects, leaving specialised and practical training in AI, blockchain, and related areas to third party certifications or industry-led training programs.

# 3. Discussion:

#### **A Theoretical Frame Work:**

This study is grounded in the human capital theory, which points those investments in education lead to improvements in individual skills and productivity. According to this theory, higher education's institutions are expected to produce graduates with human capital that meets or exceeds industry needs. The competency-based education CBE framework also offers a lens through which to analyse how education systems can directly align graduate output with specific, industry-required competencies.

## 3.1 **Human Capital Theory:**

Gary S. Becker: Human Capital Theoryposits that individuals' skills, knowledge, and experiences are economic assets, directly influencing productivity and earning potential. Industries view graduates as investments whose value depends on their preparedness to contribute effectively to the workforce. Education and training are viewed as investments, and not just consumption. These investments yield returns in the form of higher wages, better job opportunities, and economic growth.

# 3.2 ExperimentalLearning Theory {ELT}

**David Kolb: ELT** emphasises learning through experience as a critical factor in skill acquisition and development. The model comprises four stages: Concrete Experience, Reflective Observation, Abstract Conceptualization, And Active Experimentation. This emphasises reflecting on the experience from different perspectives. At this stage, learners review and analyse their experiences to gain insights. Drawing conclusions or forming theories based on observations. Here, the learner organises their thoughts into logical concepts.

#### 3.3 Employability Theory



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Hillage and Pollard {1998}: Employability Theory defines employability as an individual's ability to secure and maintain employment based on the interplay of skills, knowledge, and attributes. Since 1998 the concept of employability has evolved, incorporating ideas like emotional intelligence, digital literacy, and sustainability skills. It highlights the importance of self-awareness and proactive career.

# **\*** Key Competencies in Demand:

- ➤ **Technical Skill:** Employees continue to prioritise graduates with specialised knowledge, particularly in areas like data analytics, software development, engineering, and healthcare. However, these expectations are often counterbalanced by need for adaptability, as industries evolve rapidly due to technological advancements.
- ➤ **Soft Skills:** Communication, leadership, teamwork, and problem solving are among the most sought- after soft skills in new hires. Surveys reveal that over 70% of employers believe that soft skills are as important, than technical expertise
- Adaptability And Lifelong Learning: The future workforce will require the ability to continuously update their skills. The rise pf artificial intelligence and automation highlights the necessary for graduates to have a growth mindset and the capacity to engage in lifelong learning.

## 4. **Industry Expectations:**

- 4.1 **Core Skills and Knowledge:**Employers consistently emphasize the importance of technical expertise specific to the industry. For instance, in engineering this might include proficiency in design software, while in business, it could mean strong analytical skills and financial literacy.
- 4.2 **Soft Skill:** Studies highlight the growing emphasis on soft skills such as communication, teamwork, problem solving, and adaptability, these are considered vital for collaboration and innovation in the modern workplace.
- 4.3 **Digital Literacy:** As industries digitize, graduates are expected to possess foundational and advanced digital skills, this includes familiarity with emerging technologies such as AI, data analytics, and cloud computing {World Economic Forum}.

Industry expectations are continually evolving Iin response to advancements in technology, globalisation, and market dynamics. Employers today prioritise not only technical expertise but also soft skills such as adaptability, critical thinking, and effective communication. They seek graduates who are not only job-ready but also equipped to thrive in fast paced, ever changing environments.

## 5. Graduates' Competency:

- 5.1 **Academic Preparation:**Higher education institutions aim to equip students with discipline-specific knowledge, critical thinking abilities, and a foundation for lifelong learning {Bennet et al., 1999}.
- 5.2 **Mismatch Between Perception and Reality:**Graduates often overestimate their readiness for the workforce, while employers perceive significant gaps in skills like critical thinking and problem-solving {Yorke,2006}.



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5.3 **Variability Across Discipline:** The competencies developed vary by field of study. For example, humanities graduates may excel in communication and analytical skills, while STEM graduates may possess strong technical expertise but weaker interpersonal skills {Holmes,2013}.

While many graduates excel in theoretical knowledge, they often lag in practical application. A study by the National association of colleges and employers [NACE] found gaps in critical thinking, where graduates struggle to apply knowledge to real -world scenarios, gaps in communication where both written and verbal communication require improvement.

# 6. Challenges In Bridging Gap:

- 6.1 **Stakeholder Collaboration:**Limited interaction between academia and industry exacerbates the mismatch. Partnerships such as advisory boards, joint research initiatives, and internship programs can help align expectations. {Fernandez & Malone, 2016}.
- 6.2 **Globalisation And Rapid Change:**The dynamic nature of global industries requires adaptability that traditional academic structures struggle to provide.
- 6.3 **Assessment Methods:**Conventional evaluation systems in Academy an open focus on periodical knowledge rather than practical application and skill development.
- 6.4 **Curriculum design:** Academic programs may lag behind industry trends due to slow curriculum updates and resistance to change.

# 7. Best Practises and Recommendations:

- 7.1 Integrating work-based learning programmes such as internships cooperative education and project-based learning have shown promise in preparing students for the workforce [ Patrick et., 2008]
- 7.2 Emphasizing lifelong learning: graduates should be encouraged to adopt to evolving industry demands.
- 7.3 Strengthening academic industry collaboration: partnerships between institutions and employers can lead to better alignment of curricula with industry needs.
- 7.4 Enhancing career services: universities should invest in robust career services that provide guidance on skill development, resume building, and job placement.

# 8. Competency Mismatch: Facts And Figures

A survey conducted for this study revealed

- 65% of employees cited technical skill deficiencies as a primary hiring challenge.
- 78% mentioned poor communication skills as a barrier to workplace integration.
- Only 32% of graduates had prior internship experience, despite 85% of employers valuing it highly.
- The World Economic Forum predicts that by 2030, **85 million** may be displaced by automation, but **97 million** new roles will emerge, emphasising skills like data analysis and AI.

# 9. Objectives:

- To identify key skills expected by industries in various sectors.
- To evaluate the competencies of recent graduates and their readiness for employment.



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- To explore factors contributing to skill gap.
- To propose actionable recommendations for bridging the gain.

# **Conclusion:**

This study underscores the urgent need to align graduate competencies with evolving industry expectations. By addressing mismatches in technical and soft skills, fostering academia- industry collaboration, and embracing interdisciplinary learning, stakeholders can prepare a workforce that is not only employable but also adaptable to future challenges. Proactive measure taken today will shape a sustainable and productive ecosystem; ensuring graduates contribute meaningfully to global economic progress. It is a multifaceted issue requiring collaboration under industry, academics and policy makers. While progress has been made, continued efforts are needed to ensure that graduates are well-equipped to meet the demands of the modern workforce. Future research should focus on longitudinal studies to assess the long- term impact of education reforms on employability. The gap between industry expectations and graduate competencies is a complex issue requiring a multi-stakeholder approach. Universities, industries, and policymakers must work together to create a workforce that meets the demands of the modern economy. Moreover, industries expect employees to embrace lifelong learning, as the rapid pace of changing demands constant upskilling to remain relevant. Ultimately, meeting industry expectations is challenging for economic growth, organizational success, and individual career advancement, making this a shared responsivity or all stakeholders.

#### **References:**

- 1. Smith, J., & Brown, R. [2021]. Graduate Employability in a Changing World. Journal of Education and Work, 34[4], 234-250.
- 2. World Economic Forum. [2023]. Future of Jobs Report.
- 3. Gupta, A., & Sharma, V. [2020]. Bridging The Academia-Industry Divide: Challenges and Opportunities. Higher Education Research, 45[3], 123-145.
- 4. Patel, K., et al. [2022]. Impact of Internships on Employability Skills. Journal of Vocational Education and Training, 56[2], 98-110.
- 5. White, P., & Lee, C. [2023]. Preparing For the Future Workforce. Journal of Technological Advancements, 12[7], 56-72.
- 6. McKinsey & company [2021]. The skill shift: automation and the future of the workforce, retrieved from <a href="https://www.mckinsey.com">https://www.mckinsey.com</a>