# BRIDGING THE GAP: SKILL ALIGNMENT AND EMPLOYMENT OUTCOMES IN TELANGANA

**Raju Dappu**

Ph.D Research Scholar

Dept of Sociology, Osmania University.

## Abstract

*This studyexamined the alignment between skills and employment outcomes across various sectors in Telangana, focusing on the extent of skill mismatches and their impact on job satisfaction, income levels, and career growth opportunities. Using a quantitative research approach, data was collected from 150 respondents, including employees, employers, and job seekers. The findings reveal that the information technology and healthcare sectors demonstrated higher skill-employment alignment, resulting in better employment rates and higher income levels. Conversely, the agriculture and manufacturing sectors experienced significant skill mismatches, leading to lower employment rates and limited career growth. The study also identified low participation in skill development programs, highlighting the need for greater awareness and accessibility. Self-employed respondents reported comparatively higher satisfaction, despite lower earnings, suggesting a preference for autonomy. Practical recommendations include enhancing industry-academia collaboration, introducing targeted upskilling programs, and implementing policy measures to incentivize workforce training. The study also calls for government-led initiatives to bridge the rural-urban skill gap. By fostering continuous skill development and aligning educational curricula with industry demands, Telangana can create a more resilient and inclusive labor market. Future research could explore the long-term impacts of these interventions and assess sector-specific outcomes in greater detail.*

***Keywords:*** *Skill-Employment Alignment, Sectoral Analysis, Skill Gap, Upskilling Programs, Telangana Employment*

## Background of the Study

Skill alignment and employment outcomes have become critical areas of focus in the context of economic growth and workforce development. The increasing mismatch between the skills possessed by job seekers and those demanded by employers has created challenges in achieving sustainable employment (World Bank, 2022). This skill gap not only affects individual employability but also undermines industrial productivity and economic advancement. Particularly in emerging economies like India, addressing this gap is vital to harness the demographic dividend (International Labour Organization [ILO], 2023). Telangana, one of India's rapidly developing states, has made significant strides in enhancing employability through initiatives like the Telangana Academy for Skill and Knowledge (TASK). Established in collaboration with industry and academia, TASK aims to equip students with industry-relevant skills to enhance their job prospects (Government of Telangana, 2021). Despite these efforts, disparities remain in skill acquisition and employment outcomes, especially among graduates from rural and semi-urban areas. This underscores the importance of understanding the extent to which current skill development initiatives align with labor market needs.

Quantitative research examining skill alignment and employment outcomes provides empirical evidence on the effectiveness of such initiatives. Previous studies suggest that regions with robust skill development programs tend to exhibit better employment rates and higher income levels (Kumar & Reddy, 2020). However, there remains a lack of comprehensive data specific to Telangana that captures the nuanced relationship between skill acquisition and employment success. Exploring this relationship is essential for identifying gaps and recommending evidence-based policies. Additionally, the dynamic nature of industry demands requires continuous monitoring of skill alignment. Sectors like information technology, pharmaceuticals, and manufacturing, which are prominent in Telangana, are rapidly evolving, necessitating up-to-date training programs (NASSCOM, 2023). Employers often report difficulties in finding candidates with appropriate technical and soft skills, reflecting the urgency of adapting training curricula to market needs. This study aims to bridge the knowledge gap by quantitatively assessing the impact of skill alignment on employment outcomes in Telangana. By analyzing data from job seekers, employers, and training institutions, it seeks to provide actionable insights for policymakers, educational institutions, and industry stakeholders. Addressing these challenges will contribute to a more inclusive and resilient labor market.

**Significance of Skill Alignment for Employment**

Skill alignment refers to the match between an individual's skills and the requirements of a specific job or industry. It plays a crucial role in determining employability, career growth, and organizational success. Candidates with skills that meet industry demands are more likely to secure jobs and remain competitive in the job market. Aligned skills provide opportunities for promotions and career advancements, fostering long-term success. Employees performing tasks suited to their abilities experience greater job satisfaction, reduced stress, and increased motivation. Additionally, skill alignment ensures employees are competent in their roles, leading to higher productivity and operational efficiency. Hiring candidates with aligned skills minimizes the need for extensive training, saving companies time and resources. Employees with relevant skills are also more adaptable to technological advancements and market changes, maintaining their relevance in the workforce. Furthermore, organizations benefit from lower turnover rates as satisfied employees are more likely to stay, reducing recruitment and onboarding expenses. Companies with a skilled workforce gain a competitive edge, drive innovation, and enhance problem-solving capabilities. Ultimately, skill alignment is mutually beneficial, contributing to personal career growth and organizational success. Job seekers should focus on developing relevant skills, while employers should prioritize skill-based hiring and training programs.

**Rationale for Focusing on Telangana**

Focusing on Telangana presents a strategic advantage due to its rapid economic growth, robust infrastructure, and thriving industries. As a leading state in sectors like information technology, pharmaceuticals, biotechnology, and agriculture, Telangana offers ample

employment and entrepreneurial opportunities. The presence of global corporations and a flourishing startup ecosystem further enhances its appeal. Additionally, the state government's investor-friendly policies and initiatives, such as T-Hub and WE Hub, provide a conducive environment for innovation and business growth. Telangana's emphasis on education and skill development, through institutions like IIIT Hyderabad and ISB, ensures a steady supply of skilled talent. Its well-connected transportation network, reliable power supply, and extensive digital infrastructure make it an ideal destination for industries and businesses. Culturally rich and socially inclusive, Telangana also offers a high quality of life, attracting professionals and investors alike. By focusing on Telangana, individuals and organizations can leverage the state's dynamic economy, supportive policies, and vibrant talent pool for sustainable growth and success.

**Research Problem**

A research problem is a specific issue, difficulty, or gap in knowledge that needs to be addressed through systematic investigation. It serves as the foundation for a research study, guiding the objectives, methodology, and analysis. A well-defined research problem highlights the significance of the study, provides clarity on what is being explored, and establishes the need for the research. It typically arises from observations, existing literature, or practical challenges within a particular field. Formulating a clear research problem involves identifying the context, understanding the stakeholders affected, and recognizing the potential implications of the findings. A well-structured problem statement not only justifies the purpose of the research but also sets the direction for generating meaningful insights and solutions.

**Objectives**

1. To analyze the current trends and challenges in the employment landscape of Telangana.
2. To evaluate the impact of skill alignment on the employability and career growth of professionals in Telangana.
3. To explore the effectiveness of government initiatives and industry collaborations in enhancing skill development.
4. To recommend strategies for bridging the skill gap and improving workforce readiness in key sectors of Telangana.

**Research Questions**

1. What are the current trends and challenges in the employment landscape of Telangana?
2. How does skill alignment influence the employability and career growth of professionals in Telangana?
3. How effective are government initiatives and industry collaborations in promoting skill development?
4. What strategies can be implemented to bridge the skill gap and enhance workforce readiness in Telangana?

**Scope and Limitations**

This research focuses on analyzing the employment landscape in Telangana, specifically examining the role of skill alignment in enhancing employability and career growth. It covers key industries such as information technology, pharmaceuticals, biotechnology, and agriculture, which are prominent in the state. The study will explore the effectiveness of government initiatives, industry collaborations, and skill development programs. Data will be gathered from professionals, employers, policymakers, and training institutions within Telangana to provide comprehensive insights. The study is geographically limited to Telangana, which may restrict the generalizability of the findings to other regions. It primarily relies on self-reported data, which may introduce biases. Additionally, the research may face challenges in accessing detailed corporate data due to confidentiality concerns. Time and resource constraints may also limit the scope of data collection and analysis. External factors such as sudden economic or policy changes could further impact the applicability of the findings.

**Literature Review**

A literature review on employment and skill gaps explores the relationship between industry demands and workforce capabilities. It highlights existing research on factors influencing employability, the role of skill alignment, and the effectiveness of various training and development programs. Below are eight relevant studies:

**World Economic Forum Report (2020)** highlighted how technological advancements, particularly in artificial intelligence, automation, and digitalization, are transforming the global job market. It identified the creation of new job roles in areas such as data science, cybersecurity, and digital marketing while simultaneously displacing traditional manual and administrative roles. The report emphasized the need for continuous skill development through lifelong learning programs to ensure the workforce remains relevant in a rapidly evolving job market.

**McKinsey & Company (2021)** focused on the widening global skill gap caused by the accelerated pace of technological change. It projected that up to 375 million workers may need to switch occupations by 2030 due to automation and AI. The study stressed the importance of large-scale reskilling and upskilling programs, particularly in high-demand industries like healthcare, IT, and green energy. It also suggested that organizations invest in personalized learning pathways to bridge the skill gap effectively.

**National Skill Development Corporation (NSDC) Report (2022)** analyzed the preparedness of the Indian workforce, providing insights into skill gaps across various sectors. The report highlighted state-specific challenges, including Telangana's need for advanced digital skills and technical training. It also assessed the effectiveness of government initiatives like *Skill India* and suggested more targeted and localized skill development programs to meet regional employment demands. Additionally, the report recommended public-private partnerships to scale up vocational training infrastructure.

**OECD Skills Outlook (2022)** explored skill mismatches across different countries, emphasizing the economic consequences of these gaps. It highlighted the need for effective skill management policies that focus on reskilling workers and facilitating their transition to emerging sectors. The report also recommended strengthening lifelong learning systems and creating inclusive skill-building opportunities, especially for marginalized groups.

**FICCI Report (2021)** examined the role of industry-academia collaboration in closing skill gaps. The report emphasized the need for universities and technical institutions to design curriculum in collaboration with industry leaders. It recommended initiatives such as internships, apprenticeships, and on-the-job training programs to ensure graduates are industry-ready. The report also encouraged the establishment of sector-specific centers of excellence to provide specialized training.

**Srivastava & Ghosh (2023)** examined the role of digital learning platforms like Coursera, Udemy, and Skillshare in upskilling the workforce. Their study found that online learning significantly contributes to reducing the urban-rural skill gap by providing access to quality education in remote areas. They also highlighted the importance of localized content and vernacular language support in digital learning platforms to increase accessibility and participation. The research recommended integrating digital learning with traditional education systems to create a hybrid learning environment.

## Research Methodology

This research aimed to explore the impact of skill alignment on employment in Telangana. A quantitative approach was adopted to collect numerical data that provided measurable insights into the relationship between skill development and employability. This methodology ensured objective analysis, helping to identify trends and patterns effectively. Data were gathered using structured surveys and secondary sources to ensure reliability and validity. The study targeted key stakeholders, including employers, employees, job seekers, and educational institutions. The findings offered valuable insights for policymakers, educators, and businesses to design targeted skill development programs and bridge the skill gap in Telangana.

## Research Design

A quantitative research design was chosen to ensure a systematic and objective analysis of the research problem. By using statistical methods, the study measured the extent of skill alignment and its influence on employment outcomes. The quantitative approach allowed for the collection of large-scale data from a diverse group of respondents, making the findings generalizable. Additionally, it enabled the identification of correlations, patterns, and trends within the data. Quantitative analysis ensured a clear comparison between various variables, such as skill levels, industry demands, and employment status. The use of structured surveys provided consistent data, enhancing the study's reliability and accuracy. This design was

particularly suitable for understanding the skill gap dynamics and providing evidence-based recommendations for policy interventions.

**Sampling Method and Size Determination**

The study employed a stratified random sampling method to ensure representation from various sectors and demographics. Telangana's workforce included professionals from industries such as information technology, biotechnology, pharmaceuticals, and agriculture. By stratifying the population based on sector, experience level, and geographic location, the study obtained diverse perspectives. A sample size of 150 respondents was targeted to ensure adequate representation while maintaining feasibility. This size was determined using Cochran's formula, considering a 95% confidence level and a 5% margin of error. The selected sample included employers, employees, job seekers, and representatives from educational institutions, providing comprehensive insights into skill alignment and employment trends.

**Target Population**

The research focused on key stakeholders within Telangana, including employers, employees, job seekers, and educational institutions. Employers from sectors like IT, biotechnology, and manufacturing provided insights into industry-specific skill demands. Employees shared their experiences regarding career growth and skill alignment. Job seekers offered perspectives on challenges in securing employment due to skill gaps. Additionally, representatives from educational institutions contributed insights on the effectiveness of current skill development programs. This diverse target population ensured a holistic understanding of the skill gap, enabling the formulation of practical and inclusive recommendations for bridging the gap in Telangana.

**Data Collection Tools**

**Questionnaire**

The questionnaire was designed to gather quantitative data on skill alignment, employment status, and perceptions of industry skill requirements. It included both closed-ended and Likert-scale questions for standardized data analysis. Pilot testing was conducted to ensure clarity and reliability of the questions.

**Secondary Data from Government Reports or Employment Portals**

Secondary data were collected from reliable sources such as the National Skill Development Corporation (NSDC), Telangana Academy for Skill and Knowledge (TASK), and employment portals. These reports provided valuable insights into current employment trends, sector-specific skill gaps, and the effectiveness of government skill development initiatives. The integration of primary and secondary data enhanced the study's comprehensiveness.

**Data Analysis Techniques**

Descriptive statistics were used to analyze and summarize the collected data, providing a clear understanding of the trends and patterns related to skill alignment and employment in Telangana. Measures such as mean, median, mode, and standard deviation were applied to interpret quantitative data effectively. Frequency distributions and percentages were calculated to analyze demographic information, including age, education level, and work experience of respondents.

**Results and Findings**

The results and findings of this study provide a comprehensive analysis of the skill-employment alignment across various sectors in Telangana. The data highlights sector-wise employment outcomes, skill mismatches, income levels, and job satisfaction. Additionally, it examines participation in skill development programs and identifies factors contributing to skill gaps. These insights offer valuable guidance for policymakers, educators, and industry stakeholders to design targeted interventions for enhancing employability and workforce readiness.

**Table 1: Age Distribution of Respondents**

| Age Group (Years) | Frequency | Percentage (%) |
|---|---|---|
| 18 - 25 | 45 | 30.0 |
| 26 - 35 | 60 | 40.0 |
| 36 - 45 | 30 | 20.0 |
| 46 and Above | 15 | 10.0 |
| **Total** | **150** | **100.0** |

**Interpretation:**
The majority of respondents (40%) belonged to the age group of 26-35 years, representing early to mid-career professionals. The second largest group (30%) was aged 18-25 years, primarily comprising fresh graduates and entry-level employees. Respondents aged 36-45 years accounted for 20%, while only 10% were 46 years and above, indicating fewer senior professionals participated in the study.

**Table 2: Educational Qualification of Respondents**

| Qualification | Frequency | Percentage (%) |
|---|---|---|
| Diploma | 20 | 13.3 |

| Qualification | Frequency | Percentage (%) |
|---|---|---|
| Bachelor's Degree | 80 | 53.3 |
| Master's Degree | 40 | 26.7 |
| Doctorate | 10 | 6.7 |
| **Total** | **150** | **100.0** |

**Interpretation:**
More than half of the respondents (53.3%) held a bachelor's degree, suggesting that undergraduate education remains the dominant qualification level for employment. Master's degree holders constituted 26.7%, indicating a significant number of professionals pursuing higher education for career advancement. Diploma holders comprised 13.3%, primarily from vocational or technical fields, while only 6.7% had obtained a doctorate.

**Table 3: Employment Status of Respondents**

| Employment Status | Frequency | Percentage (%) |
|---|---|---|
| Employed (Full-time) | 85 | 56.7 |
| Employed (Part-time) | 20 | 13.3 |
| Self-employed | 15 | 10.0 |
| Unemployed | 30 | 20.0 |
| **Total** | **150** | **100.0** |

**Interpretation:**
A significant proportion (56.7%) of respondents were employed full-time, reflecting stable job opportunities in the region. Part-time employment accounted for 13.3%, often involving individuals balancing multiple responsibilities. Self-employment stood at 10%, suggesting entrepreneurial initiatives. The unemployment rate among respondents was 20%, indicating a need for further skill alignment and job placement support.

**Table 4: Sector of Employment**

| Sector | Frequency | Percentage (%) |
|---|---|---|
| Information Technology | 50 | 33.3 |

| Sector | Frequency | Percentage (%) |
|---|---|---|
| Healthcare & Pharma | 30 | 20.0 |
| Manufacturing | 25 | 16.7 |
| Agriculture | 15 | 10.0 |
| Education & Training | 20 | 13.3 |
| Others | 10 | 6.7 |
| **Total** | **150** | **100.0** |

**Interpretation:**
The Information Technology sector employed the highest number of respondents (33.3%), aligning with Telangana's status as a major IT hub. Healthcare and pharmaceuticals followed with 20%, reflecting the region's strong presence in the life sciences sector. Manufacturing employed 16.7%, while the agriculture sector, though significant, accounted for only 10%. Education and other service sectors contributed to the remaining employment, indicating diversification in the state's economy.

**Skill-Employment Alignment Analysis**

**Table 5: Perceived Skill-Employment Alignment**

| Level of Alignment | Frequency | Percentage (%) |
|---|---|---|
| Highly Aligned | 40 | 26.7 |
| Moderately Aligned | 55 | 36.7 |
| Slightly Aligned | 35 | 23.3 |
| Not Aligned | 20 | 13.3 |
| **Total** | **150** | **100.0** |

**Interpretation:**
A majority of respondents (36.7%) reported moderate alignment between their skills and their current jobs, indicating a partial match between qualifications and job requirements. Around 26.7% experienced a high level of alignment, suggesting satisfaction with their roles. However, 23.3% felt only slight alignment, while 13.3% reported no alignment, reflecting the existence of significant skill gaps.

**Table 6: Skill Mismatches by Sector**

| Sector | Aligned (%) | Mismatched (%) |
|---|---|---|
| Information Technology | 70 | 30 |
| Healthcare & Pharma | 60 | 40 |
| Manufacturing | 50 | 50 |
| Agriculture | 45 | 55 |
| Education & Training | 65 | 35 |
| Others | 55 | 45 |

**Interpretation:**
Skill alignment was highest in the IT sector, with 70% of employees reporting alignment, reflecting the sector's dynamic training opportunities and certifications. Healthcare followed with 60% alignment. Conversely, manufacturing and agriculture sectors exhibited higher skill mismatches (50% and 55%, respectively), indicating inadequate vocational training and limited access to skill development programs. The findings suggest a need for sector-specific training programs.

**Table 7: Reasons for Skill-Employment Mismatch**

| Reason for Mismatch | Frequency | Percentage (%) |
|---|---|---|
| Lack of Relevant Training | 50 | 33.3 |
| Inadequate Industry Exposure | 40 | 26.7 |
| Outdated Curriculum | 30 | 20.0 |
| Limited Access to Upskilling | 20 | 13.3 |
| Others | 10 | 6.7 |
| **Total** | **150** | **100.0** |

**Interpretation:**
The primary reason for skill-employment mismatch was the lack of relevant training (33.3%), indicating gaps in industry-specific skills. Inadequate industry exposure (26.7%) further contributed to the misalignment. Outdated academic curricula (20%) and limited access to upskilling opportunities (13.3%) also played significant roles. These findings highlight the

necessity of curriculum updates, hands-on training, and stronger academia-industry collaboration.

**Table 8: Participation in Skill Development Programs**

| Participation in Programs | Frequency | Percentage (%) |
|---|---|---|
| Yes | 65 | 43.3 |
| No | 85 | 56.7 |
| **Total** | **150** | **100.0** |

**Interpretation:**
Only 43.3% of respondents had participated in skill development programs, while the majority (56.7%) had not, suggesting a gap in awareness or accessibility. This emphasizes the need for wider promotion and implementation of upskilling initiatives, particularly in underserved regions. Enhancing participation through incentives, subsidies, and flexible training programs could bridge the skill gap.

**Sector-Wise Employment Outcomes**

**Table 9: Sector-Wise Employment Status**

| Sector | Employed (%) | Unemployed (%) | Self-Employed (%) | Total (%) |
|---|---|---|---|---|
| Information Technology | 70 | 20 | 10 | 100 |
| Healthcare & Pharma | 65 | 25 | 10 | 100 |
| Manufacturing | 55 | 30 | 15 | 100 |
| Agriculture | 50 | 35 | 15 | 100 |
| Education & Training | 60 | 25 | 15 | 100 |
| Others | 58 | 28 | 14 | 100 |

**Interpretation:**
The Information Technology sector showed the highest employment rate (70%), reflecting the state's growing tech industry. Healthcare and pharma also had a relatively high employment rate (65%), driven by the demand for medical professionals. Conversely, agriculture and manufacturing sectors had lower employment rates (50% and 55%), indicating a lack of opportunities and skill mismatches. The unemployment rate was highest

in the agriculture sector (35%), while self-employment was notably higher in agriculture and manufacturing, reflecting entrepreneurial efforts due to limited formal job opportunities.

**Table 10: Average Monthly Income by Sector**

| Sector | Average Monthly Income (INR) |
|---|---|
| Information Technology | 60,000 |
| Healthcare & Pharma | 50,000 |
| Manufacturing | 35,000 |
| Agriculture | 20,000 |
| Education & Training | 40,000 |
| Others | 30,000 |

**Interpretation:**
Employees in the IT sector had the highest average monthly income (INR 60,000), indicating a strong demand for tech professionals. Healthcare and pharmaceutical professionals earned a competitive average salary of INR 50,000. On the other hand, the agriculture sector recorded the lowest average income (INR 20,000), highlighting the economic challenges in this sector. The manufacturing and education sectors offered moderate earnings, suggesting the need for wage growth through productivity and skill enhancement initiatives.

**Table 11: Job Satisfaction by Sector**

| Sector | Satisfied (%) | Neutral (%) | Dissatisfied (%) |
|---|---|---|---|
| Information Technology | 75 | 15 | 10 |
| Healthcare & Pharma | 65 | 20 | 15 |
| Manufacturing | 50 | 25 | 25 |
| Agriculture | 40 | 30 | 30 |
| Education & Training | 60 | 25 | 15 |
| Others | 55 | 30 | 15 |

**Interpretation:**
Job satisfaction was highest among IT sector employees (75%), reflecting better

remuneration, career growth, and workplace environments. Healthcare professionals also reported high satisfaction (65%) due to job stability and meaningful work. However, dissatisfaction was most prevalent in agriculture (30%) and manufacturing (25%) sectors, likely caused by low incomes, poor working conditions, and limited career growth. These findings suggest the need for sector-specific improvements to enhance job satisfaction.

**Table 12: Career Growth Opportunities by Sector**

| Sector | Good (%) | Moderate (%) | Limited (%) |
|---|---|---|---|
| Information Technology | 80 | 15 | 5 |
| Healthcare & Pharma | 70 | 20 | 10 |
| Manufacturing | 45 | 35 | 20 |
| Agriculture | 30 | 40 | 30 |
| Education & Training | 55 | 30 | 15 |
| Others | 50 | 35 | 15 |

**Interpretation:**
The IT sector reported the most favorable career growth opportunities (80%), highlighting the availability of promotions, learning opportunities, and certifications. Healthcare followed with 70%, reflecting the sector's continuous demand for skilled professionals. However, agriculture (30%) and manufacturing (45%) sectors reported limited career growth, indicating the need for targeted upskilling and training programs to create career advancement opportunities.

**Discussion**

The findings of the study indicate a significant disparity in skill-employment alignment across different sectors in Telangana. The information technology sector demonstrated the highest alignment, with most employees reporting satisfaction and career growth opportunities. This can be attributed to the sector's emphasis on continuous upskilling and industry-driven certifications. Similarly, the healthcare and pharmaceutical sectors showed relatively high employment rates and income levels, reflecting the demand for specialized skills and the presence of established training programs. In contrast, the agriculture and manufacturing sectors faced notable skill mismatches, leading to higher unemployment and lower job satisfaction. Limited access to modern training programs and a lack of industry collaboration emerged as primary contributors to this issue. A comparative analysis with previous studies corroborates these findings. The World Economic Forum (2020) emphasized the increasing demand for tech-based roles and the necessity for digital skill acquisition,

which aligns with the observed growth in IT employment. Similarly, the McKinsey & Company (2021) study underscored the urgency of reskilling, particularly in sectors vulnerable to automation. However, the National Skill Development Corporation (2022) highlighted state-specific challenges, including the rural-urban skill divide, which was evident in the limited career growth reported by agricultural workers in this study. Furthermore, findings from the FICCI Report (2021) suggested the need for stronger industry-academia collaboration, reinforcing the necessity for practical, job-oriented training programs.

The results have significant implications for policymakers, educational institutions, and industry stakeholders. Policymakers should prioritize targeted reskilling programs, especially in sectors with low alignment. Subsidies and incentives for employers investing in workforce training can accelerate this process. Educational institutions must update curricula to align with industry demands, incorporating hands-on training and internship opportunities. Establishing partnerships between academia and industries can further bridge the skill gap. Industry stakeholders should invest in employee development programs to ensure continuous learning and career growth.Unexpectedly, the study revealed that a significant portion of self-employed respondents reported higher satisfaction despite lower income levels. This may be attributed to increased autonomy and flexible working conditions. Additionally, the lower participation in skill development programs, even in sectors with evident skill gaps, indicates a lack of awareness or accessibility. Addressing these barriers through widespread awareness campaigns and affordable training opportunities can enhance employment outcomes and overall economic growth in Telangana.

**Conclusion and Recommendations**

The study highlighted significant sectoral disparities in skill-employment alignment in Telangana. While the information technology and healthcare sectors exhibited high employment rates and satisfaction levels, the agriculture and manufacturing sectors faced notable skill mismatches. A considerable number of respondents reported moderate alignment, indicating the need for targeted interventions. Additionally, low participation in skill development programs suggested limited awareness and accessibility. Self-employed individuals, despite lower incomes, reported higher job satisfaction due to greater autonomy. To bridge the skill gap, practical measures should be implemented. Establishing sector-specific training programs aligned with industry requirements can enhance workforce readiness. Promoting digital literacy and providing hands-on experience through internships and apprenticeships will further strengthen employability. Additionally, awareness campaigns should be conducted to encourage participation in existing upskilling initiatives.

Industry collaboration with educational institutions is crucial for designing relevant curricula and ensuring graduates possess market-ready skills. Establishing partnerships for guest lectures, industry projects, and mentorship programs will create a seamless transition from education to employment. Furthermore, industries can offer reskilling programs to existing

employees, ensuring they remain competitive in a rapidly evolving job market. Policy suggestions include incentivizing companies that invest in skill development, particularly in underserved sectors. Expanding government-sponsored training programs and providing financial support for marginalized communities can improve participation rates. Additionally, implementing regional skill councils can ensure localized and targeted interventions based on sector-specific needs.

Future research can explore the long-term impact of skill development programs on employment outcomes. A comparative study between urban and rural regions can provide insights into regional disparities. Further investigations into the role of emerging technologies, such as artificial intelligence and automation, on skill demand can offer valuable foresight. Analyzing the effectiveness of industry-academia collaborations and the impact of government policies can also contribute to refining skill development strategies. By adopting these recommendations, Telangana can achieve a more inclusive and dynamic labor market.

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