VOLUME: 09 ISSUE: 03 | MARCH - 2025 SJIF RATING: 8.586

## Artificial Intelligence – Way Towards a Better Future

Aum Shukla ITM SLS Baroda University, India

Gaurav Kulkarni ITM SLS Baroda University, India

Abstract - Career guidance is a natural component of education and human growth that guides students in mapping their in-built strengths with occupation. Traditional practices, as useful as they are, are hindered by deficiencies like scalability, non-personalization, and inability to address quickly changing work markets. This article discusses how the integration of artificial intelligence (AI) can solve the aforementioned problems through the provision of real-time, personalized feedback on career choices. Through an integration of established counseling techniques and current AI-based methods, we discuss how greater self-exploration, competency mapping, and active intervention can re-engineer career advising. Also, the paper presents an Indian education environment case study, addresses ethical concerns, and identifies a hybrid model structure that integrates technology and human innovation.

Index Terms - AI ethics, artificial intelligence, career guidance, lifelong learning, social mobility, traditional models.

### I. INTRODUCTION

Career guidance has long been seen as critical to matching strengths with career opportunity. The traditional methods originating from paradigms in psychology and sociology continue to draw significantly from individual counseling, tests of proficiency, and organizational intervention. But in the time of digital technology, quick transformation within the workforce and the complexities of career designs call for adaptive and customized processes. The discovery of artificial intelligence has made it possible for combination models in which technology usage enhances the role of instinct. Through real-time data analytics, machine learning, and job market reality checks, AI-based university choice algorithms ensure that students make the right choices, leading to better career prospects and education quality. This paper investigates the ability of AI-powered tools to complement classical career guidance systems with scalable, data-driven, and adaptive student and job-seeker solutions.

# II. TRADITIONAL CAREER GUIDANCE: FOUNDATION AND LIMITATIONS

ISSN: 2582-3930

The traditional approaches to guidance focus on self-assessment, vocational maturity, and social contribution. India's NCERT and state employment exchanges have historically extended systematic guidance, putting importance on the development of academic study and vocational aspirations and attainment of social justice. Systemic tests and counseling are insensitive to individual variance. School-level guidance is without gaps vis-a-vis real labor market requirements. Poor and rural regions do not have proper access to quality career guidance services.

### III. ARTIFICIAL INTELLIGENCE IN CAREER ASSISTANCE

Machine learning algorithms scan academic records, skill sets, and working conditions to recommend the best courses and career streams.

Natural Language Processing (NLP) technologies scrape and mine skills from resumes, social media profiles, and online portfolios. Predictive analytics flag students who are at risk early, allowing timely and effective guidance. AI-enabled platforms like the ones introduced under initiatives like the National Programme on Artificial Intelligence (NPAI) attempt to integrate education offerings with regional employment opportunities, despite being affected by regional disparity corrections. Virtual labs like OLabs and DIKSHA (Digital Infrastructure for Knowledge Sharing) assist in the creation of adaptive learning modules. Large EdTech players like Unacademy and Byju's utilize AI to design custom learning pathways, thus assisting the learner in the creation of all-around skill profiles. Some of the most urgent issues are data privacy, algorithmic bias, and AI system explainability — all of which are most urgently required in linguistically and culturally diverse environments. The digital divide, lack of trained AI instructors, and administrative lag in policy execution are also among the causes of using AI effectively for career guidance The use of initiatives like "ShikshaDoot" also illustrates the scope of AI to reach rural students through mobile-based

© 2025, IJSREM | <u>www.ijsrem.com</u> DOI: 10.55041/IJSREM43410 | Page 1

SJIF RATING: 8.586



VOLUME: 09 ISSUE: 03 | MARCH - 2025

chatbots, and overall expansion of EdTech points towards better customized feedback and interaction with students.

# IV. STRIKING A BALANCE BETWEEN TRADITION AND INNOVATION

### A. Hybrid Models

- Collaborative Tools: Combining AI with traditional counseling can ease administrative tasks through the automation of mundane tasks (e.g., scheduling, collation of data) and presenting counselors with valuable insights through interactive dashboards.
- Ethical Integration: Constant auditing to limit algorithmic bias and strict adherence to data privacy frameworks (e.g., GDPR-compliant architectures) is vital to establish users' trust.

### B. Institutional Maturity Framework

- Awareness: Trainers and guides need to be educated on the strengths and weaknesses of AI.
- Integration: AI technology needs to be integrated smoothly into current curricula to enable it to support instead of displacing human judgment.
- Transformation: Seamless data ecosystems need to be developed to enable lifelong learning and adaptive career development paths.

### V. AI-DRIVEN UNIVERSITY SELECTION FOR PERSONALIZED EDUCATION AND CAREER GROWTH

### A. The Demand for Tailored University Choice

The selection of the appropriate university is a decision that shapes the student's academic and professional life. Traditional approaches to university selection are rankings, recommendations, and traditional tests. The traditional approaches mainly overlook personal interest, aptitudes, economic limitations, and career aspirations. AI-driven university selection systems present a breakthrough solution by looking for universities best suited to the student's academic standing, interests, and job trends.

### B. How AI helps in University Selection

Artificial Intelligence applies machine learning and data analysis to learn a student's profile in detail.

AI software collects and analyzes data such as academic background, co-curricular activities, economic status, geographical location, and career streams chosen. Sifting through vast volumes of university data, AI finds the topmost universities that are suitable for students based on their aptitude and desire. Secondly, AI can also align students with jobs and suggest the high-ranking universities with greater industry links and thereby enhance the chance of graduating well-paid with job.

### C. AI-Based Decision-Making: Key Features

College choice websites gain some intelligent characteristics such as:

ISSN: 2582-3930

- Profile Matching Algorithms: The algorithm analyzes student profiles and scores schools on a similarity score.
- Real-Time Job Market Analysis: Industry needs are also taken into account by the computer and suggest universities with most matching courses.
- Financial Aid and Scholarship Suggestion: AI recommends colleges in terms of fee and funds available for financial aid.
- Adaptive Learning Suggestions: AI takes into account a learner's learning ability and suggests colleges best suited for the learning schedule.
- Domestic and Foreign Recommendations: AI can filter out recommendations from domestic or foreign exposure.

# D. Optimal Career Aspects through AI-Based College Selection With developing patterns in the labor market, AI directs students to study at universities that have courses that align with developing career prospects. AI applications scan employer needs for employees, business cycles of growth, and projected wages to direct students towards making choices that ready them for the future workforce. The method closes the divide between educational schooling and employment, lowering

### E. Ethical Issues and Upcoming Developments

underemployment and skill misfit.

Although AI-based university selection systems are extremely beneficial, suggestion transparency and objectivity are required. The algorithms' bias needs to be tackled to provide an equal opportunity to students from different backgrounds. In addition, the coupling of AI and career counseling can result in a blended system that combines data-driven facts and human advice. The future of how AI will develop will make personalization even more powerful, making university selection even more strategic and informed.

### **CONCLUSION**

Technology with AI has the potential to build on conventional career guidance by providing scalable, individualized assistance. Although AI can push skills to matching career opportunity, issues arise such as - how to enable individuals to trust and believe in such technology, prevent digital divides, and account for geographical diversity. Augmenting AI algorithms, ethics, and coordination between policymakers, educators, and technology leaders needs to be the top priority in forthcoming research pieces on the path toward creating informed, fair career development systems.

### ACKNOWLEDGEMENT

The author gratefully acknowledges Mr. Gaurav Kulkarni for his invaluable guidance and support, which played a crucial role in the development of this paper.

© 2025, IJSREM | <u>www.ijsrem.com</u> DOI: 10.55041/IJSREM43410 | Page 2

SJIF RATING: 8.586

ISSN: 2582-3930



VOLUME: 09 ISSUE: 03 | MARCH - 2025

### REFERENCES

- [1] S. K. Kochhar, "Guidance and Counselling." New Delhi: Sterling Publishers, 1980.
- [2] S. Westman et al., "Artificial Intelligence for Career Guidance," *IAFOR Journal of Education*, vol. 9, no. 4, 2021.
- [3] P. Roy, "Career Guidance: A Way of Life," *Tathapi Journal*, vol. 19, no. 39, 2020
- [4] N. Korhonen et al., "AI in Career Guidance: Requirements and Prospects," *IAFOR Journal of Education*, vol. 9, no. 4, 2021.
- [5] OECD, "Career Guidance and Public Policy: Bridging the Gap." Paris: OECD Publishing, 2004.
- [6] The Times Of India, "Over 85% of School Students Turn to AI for Career Counseling: Is AI the Best Choice?" TOI Education, 2024.
- [7] Walter, S. M. (2012). Educational Guidance in High Schools. Urbana: The University of Illinois.
- [8] Guidance and Counselling (Department of Educational Psychology & Foundations of Education & RMSA Project Cell). New Delhi: NCERT, 2015.

© 2025, IJSREM | <u>www.ijsrem.com</u> DOI: 10.55041/IJSREM43410 | Page 3