

Pathfinder- Carrer Guidance using Artificial Intelligence

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Abstract: *This project introduces an innovative AI-driven Career Guidance System designed to assist individuals in making informed decisions about their professional paths. With the rapid evolution of industries and job markets, the need for personalized and adaptive career advice has become crucial. Our system leverages artificial intelligence techniques, including machine learning and natural language processing, to analyze user data and industry trends, providing tailored recommendations for career development. The AI model integrates diverse data sources, such as educational backgrounds, skills, and preferences, to create comprehensive user profiles. By employing advanced algorithms, the system generates insightful suggestions regarding suitable career paths, potential skill enhancements, and emerging job opportunities. Real-time updates ensure that users receive the latest information on market demands, enabling them to stay competitive and align their skills with industry trends*

Keywords: Artificial Intelligence, Data processing, Recommendation engine

REFERENCES

- [1] Kettunen, J., Vuorinen, R., & Sampson, J. P. (2013). Career practitioners' conceptions of social media in career services. *British Journal of Guidance & Counselling*, 41(3), 302–317.
- [2] K Roopkanth, V Bhavana, "Student career area prediction using machine learning", IEEE- Nov 2018.
- [3] Brereton, E.: Universities Use AI Chatbots to Improve Student Services. *EdTech Magazine*. (2019). Accessed 22 December 2020.
- [4] Boshoff, A.: Accessibility and chatbots: how to make your chatbot user-friendly for everyone. *Rogerwilco*, Accessed 17 December 2020.
- [5] Prof. Rajan Singh, Ronit Pandita, Kaushik Kalyanaraman, Gursimran Singh Chhabra, "Career Guidance System", IEEE-2nd February 2018
- [6] Cox, A. M. (2021). Exploring the impact of Artificial Intelligence and robots on higher education through literature-based design fictions. *International Journal of Educational Technology in Higher Education*, 18(3).
- [7] Fusco, L., Parola, A., & Sica, L. S. (2020) Designing meaningful career tools: a proposal for an optimal use of technology in career guidance.
- [8] European Commission (2019). Key Messages on Artificial Intelligence in Education Education & Training 2020 Working Group on Digital Education: Learning, Teaching and Assessment.
- [9] Martiniello, N., Asuncion, J., Fichten, C., Jorgensen, M., Havel, A., Harvison, M., Legault, A., Lussier, A., & Vo, C. (2021). Artificial intelligence for students in postsecondary education: A world of opportunity. *AI Matters*, 6(3), 17–29.