

Artificial Intelligence and Digital Transformation of Healthcare Systems: Implications for Medical Tourism Development in Delhi

Pankhuri Kapoor^{*} and Tushinder Preet Kaur^{**}

*Mittal School of Business, Lovely Professional University
Phagwara, Punjab, India*

Abstract: The paper aims to discuss the association between medical tourism development and healthcare infrastructure in Delhi, with a prospective view towards Artificial Intelligence (AI)-based systems. Principal Component Analysis (PCA) and Principal Component Correlation (PCC) are implemented using secondary data to determine healthcare indicators that are the most important and how they correlate with medical tourism capacity. The findings indicate that medical tourism performance is determined largely by the healthcare infrastructure, financial resources, and emergency services. There are high correlations between healthcare capacity and hospital service capabilities. The results emphasize the need to enhance the healthcare system, with AI-powered technologies having the potential to enhance efficiency, resources distribution, and patient handling in medical tourism.

Keywords: Artificial Intelligence, Medical Tourism, Healthcare Infrastructure, Principal Component Analysis, Delhi

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^{*} Email: pankhuri.kapoor1997@gmail.com

^{**} Corresponding Author. Email: tushinder.16446@lpu.co.in