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practice prior to the inception of AI. It then investigates the specific AI techniquesused in quantitative trading, such as machine learning algorithms, natural language processing,and deep learning models. The said technologies help the participants to process huge amountsof data, identify complex patterns, and develop decisions that are data driven in realtime.Moreover, the study delves into the edges and shortcomings related with AI-led quantitativetrading strategies. Benefits include improved predictive accuracy, lowered human bias, and the competence to capitalize on market inefficiencies briskly. On the contrary, challenges such as model interpretability, data quality issues, and regulatory considerations are also queried. In conclusion, the study accentuates the transformative consequence of AI on quantitative trading, highlighting its role in shaping the future of financial markets. It discusses probable future trends and areas for further research, ultimately contributing to a profound understanding of AI'sevolving role in finance.

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A SURVEY OF OFF-COURT FACTORS AFFECTING THE PERFORMANCE OF BADMINTON PLAYERS

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Abstract

While on-court performance is crucial in badminton, off-court Badminton player performance is not only determined by on-court skills and physical training but also significantly influenced by various off-court factors. This survey examines key off-court elements that impact player performance, including mental health, nutrition, sleep patterns, social support, academic or professional responsibilities, and coaching dynamics. Through a combination of interviews, surveys, and secondary data analysis, the study identifies critical correlations between these factors and athletic outcomes. The findings highlight that psychological well-being, including stress management and motivation, plays a pivotal role in maintaining focus and resilience. Balanced nutrition and proper hydration are essential for sustained energy and recovery, while consistent sleep patterns support physical and mental rejuvenation. Social support from family, peers, and coaches provides emotional stability and enhances confidence. Conversely, unmanaged stress, poor time management, and external pressures like academic or career demands can detract from a player’s

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