

The Transformative Power of AI in Football and beyond

D V Aswadev¹, Anirudhan V², Goutham Krishna R³, Angelina Rose Chacko⁵, Gigi Joseph⁶

¹ UG-BCA, Kristu Jyothi College of Management and Technology, Changanassery, Kerala, India

² UG-BCA, Kristu Jyothi College of Management and Technology, Changanassery, Kerala, India

³ UG-BCA, Kristu Jyothi College of Management and Technology, Changanassery, Kerala, India

⁴ UG-BCA, Kristu Jyothi College of Management and Technology, Changanassery, Kerala, India

⁵ UG-BCA, Kristu Jyothi College of Management and Technology, Changanassery, Kerala, India

⁶Assistant Professor, Department of Computer Application, Kristu Jyoti College of Management and Technology, Changanassery, Kerala, India

¹aswadevvinod575@gmail.com, ²anirudhanv51@gmail.com, ³gouthamkrishna9305@gmail.com,

⁴anupamateresasebastian@gmail.com, ⁵angelinarose0112@gmail.com, ⁶gigirose2k12@gmail.com

ABSTRACT

Generative Artificial Intelligence(GenAI) has been one of the hot topic in football world and it is changing the way teams scout players, analyze performance, make tactical choices and engage with fans. Enter prompt generators such as GPT and DALL-E, who provide instant synthetic data – game changers for teams/coaches and their fans. GenAI is different from the AI that we have been using all along—it does not fixate on analyzing only available data but rather facilitates creation of new content or builds predictive scenarios, a much-needed competitive advantage in the world of football. With GenAI transforming data into actionable insights, clubs can evaluate player potential more accurately, adapt their plays during matches and create more tailored experiences for the fans.

The paper investigates multiple football use cases with respect to GenAI, including performance analysis, simulations of tactical scenarios and customized content for supporting audience engagement. Player Scouting: GenAI generated data is making Player Scouting more accurate & human-like- this means the process of identifying talent potential and game-readiness could be done with both accuracy. Building on that in-depth understanding of individuals, GenAI powers personalized content experiences — recap stories and video highlights driven by how what resonates with fan's unique preference profiles. Especially with AR and virtual reality; this leads to more fan satisfaction when it comes to immersive experience.

While the benefits of GenAI in football are abundant, it raises ethical concerns about the data and its authenticity in generated content. Although GenAI would: 1) help generate the tools that make an impact in how things will be done differently, it all must be managed with accountability, context and transparency in terms of context of content generated. Overall GenAI has been a great enhancer to many aspects of the game, from scouting players and fan engagement. Future research must also explore sports where GenAI could be deployed to capitalize on real-time game modifications.

KEYWORDS: Performance Analysis in Football, Tactical Simulations with GenAI, Personalized Content for Fans, Predictive Analytics in Football, AI in Talent Identification, Real-Time Data in Football.