

Data Mining: BeeViva Challenges

MARCO BELLÒ, University of Padua, Italy

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1 INTRODUCTION

Artificial Intelligence has fascinated public and scientific community alike for almost a century, since Alan Turing's "Imitation Game" [4]. The idea, trivialized, is that any machine capable of fooling a person into thinking it's speaking to a human can be considered sentient. For seventy-three years the game has remained unbeaten, until OpenAI's ChatGPT-4 win in 2023 [1]. This model is one of the last iterations of the Generative Pre-Training models pioneered by OpenAI in 2018 (at the moment of writing the latest model available is GPT-5.2) [3], which closely followed the first breakthrough towards a human-like agents: "Attention Is All You Need" [5] is a 2017 landmark research paper authored by eight Google researchers that introduced the *transformer* architecture, considered the backbone of all modern LLMs and the main contributor of the AI boom [2].

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Author's address: Marco Bellò, marco.bello.3@studenti.unipd.it, University of Padua, Padua, Italy.

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