

Research on the Python programming language and building an AI virtual assistant application

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Abstract: This topic focuses on researching the Python programming language with the goal of developing an AI virtual assistant system. The context of the topic is determined by the increasing demand for using artificial intelligence and automating work processes. Through theoretical and experimental research, we plan to build a virtual assistant application capable of natural language processing, providing information support and problem-solving for users. The results of the topic not only affirm the high applicability of Python in implementing AI but also contribute to the development of artificial intelligence technology in practice.

Keywords: Python, Artificial Intelligence (AI), Virtual Assistant Applications, Natural Language, Language Processing