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INVESTIGATING THE USE OF CHATGPT IN SATELLITE IMAGE ANALYSIS FOR  
AERONAUTICAL ENGINEERING APPLICATIONS

**Abstract**

ChatGPT made waves in the world of natural language processing with its outstanding performance. However, its potential applications in aeronautical engineering remain untapped. To Investigate this uncovered part, we present an exploratory study on the potential benefits, scalability, and limitations of applying ChatGPT in this field. As a case study, we demonstrate the application of ChatGPT to satellite imagery analysis using Python. The usefulness, accuracy, and limitations of ChatGPT are investigated when performing satellite imagery analysis for aeronautical engineering applications. We also discuss the potential pros and cons of utilizing ChatGPT in this area. Our study demonstrates that ChatGPT can be effectively used in satellite imagery analysis for aeronautical engineering applications in practice. Although the model has limitations, especially in specialized and complex fields, our study provides insight into these limitations and describes future challenges to improve scalability. Our research findings provide insights into the usability, scalability, usefulness, and limitations of ChatGPT in the field of aeronautical engineering. This can benefit researchers and practitioners working in this field, allowing them to identify the potential applications of ChatGPT and the limitations they may encounter. Overall, our study highlights the potential of ChatGPT and its implications for the future of aeronautical engineering.