

# ChatGPT for SPC

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graph TD; A[ChatGPT for SPC] --> B[Strengths]; A --> C[Limitations]; B --> B1[Seems to be more proficient in Python than R (less errors)]; B --> B2[Can explain code fairly well]; B --> B3[Translates code fairly well between R (base and tidyverse) and Python]; B --> B4[Useful for knowledge generation and brainstorming]; C --> C1[Limited understanding of R arguments in some GUI (e.g., qcc)]; C --> C2[Cannot be used for precise definitions, especially for SPC concepts]; C --> C3[When used in coding, logical errors are hard to detect by non-experts]; C --> C4[Can produce nonsensical results (the hallucination problem)];
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## Strengths

Seems to be more proficient in Python than **R** (less errors)

Can explain code fairly well

Translates code fairly well between **R** (base and tidyverse) and Python

Useful for knowledge generation and brainstorming

## Limitations

Limited understanding of **R** arguments in some **GUI** (e.g., qcc)

Cannot be used for precise definitions, especially for SPC concepts

When used in coding, logical errors are hard to detect by non-experts

Can produce nonsensical results (the hallucination problem)