

## Probability of Comment Types in Qwen2.5 across Tasks

Activation Probability



Tasks

- Benchmark combined - comment - code summarization: 0.8922
- Benchmark combined - comment - code translation: 0.9950
- Benchmark combined - comment - test generation: 0.9658
- Benchmark combined - comment - code completion: 0.9430
- Benchmark combined - comment - fault localization: 0.8941
- Benchmark combined - comment - program repair: 0.8987
- Benchmark combined - comment - vulnerability detection: 0.9994
- Benchmark combined - comment - code review: 0.9364
- Benchmark combined - comment - code refactoring: 0.8941
- Benchmark combined - comment - code documentation: 0.8935

Source: <https://arxiv.org/pdf/2408.01237v2>