SRN: PES1UG21CS451

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***Result Table:***

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| **Question** | **Result 1** | **Result 2** | **Result 3** | **Result 4** |
|  | **chunk\_size=500** | **chunk\_size=1000, chunk\_overlap=60** | **temperature=0.4** | **context\_length=2048** |
| **1. What was AAPL’s sales during 2018?** | Inaccurate and incomplete data, missing key figures | Accurate information with detailed breakdowns of sales | Coherent response with slight inaccuracies in figures | Comprehensive and precise, includes additional financial context |
| **2. What was MSFT’s sales during 2018?** | Missing or vague data points, lacks detail | Comprehensive and accurate data, including product-wise sales | Some creative elaboration but mostly accurate | Detailed, including sales by segment and comparisons to previous years |
| **3. How much were the NASDAQ stock dividends in 2016?** | Lacks specific details, general overview provided | Accurate dividend information, includes payout dates | Accurate, but response includes speculative statements | Thorough analysis with historical context and future projections |
| **4. How much were the NASDAQ stock dividends in 2017?** | Incomplete information, lacks clarity | Detailed and precise figures with context | Generally accurate but includes unrelated financial details | Provides accurate figures and deeper insights into market conditions |
| **5. How much debt does NASDAQ have in 2018?** | Vague response, lacking specifics | Detailed debt figures, including breakdowns by type | Mostly accurate but includes speculative elements | Precise breakdown of debt structure, including long-term and short-term liabilities |

***Inferences Drawn:***

Result 1 (chunk\_size=500): The model response on a smaller chunk size; probably loss of context, less accurate gathering of information. This often results in vague and incomplete responses, missing key figures and details.

Result 2 (chunk\_size=1000, chunk\_overlap=60): The response with the larger chunk size and overlap gives more accurate and detailed information due to better retention of context. What's more, this configuration holds coherence and extra detail that often gets lost on smaller chunk sizes.

Result 3: Temperature = 0.4. The response with a low temperature setting ensures that results are more deterministic and coherent, though inaccurate or speculative at times. The value creates a balance between creativity and accuracy. The response generally is coherent and on-topic.

Result 4: This setting allows the model to consider more significant portions of the input it views, enabling responses to be very detailed and contextually rich in their information. It refines how the model retains and provides references for relevant information, resulting in fully accurate answers that include supplementary financial context, historical data, and future projections.