**A4F BENCHMARK ANALYSIS REPORT BASED ON THE RESPONSES OF CHATGPT.**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Exp. Settings** | **Total Instances** | **Counter Examples** | **No Counter**  **examples** | **Instance Found** | **Overfit**  **(No Instance found)** | **Syntax error** | **Type Error** | **No result / blank Instance** |
| Bug locations and fix comments  (Fix bug – No Assertion) | 1938 | 133 | 497 | **401** | 96 | 637 | 666 | 5  (possible reason – No check / Run command in chatGPT solution. ) |
| Bug locations and without Fix comments  (Fix bug – No Assertion) | 1938 | 333 | 668 | **497** | 171 | 372 | 560 | 6  (possible reason – No check / Run command in chatGPT solution. ) |
| No Bug locations and No Fix comments  (Fix bug – Pass Assertion) | 1938 | 309 | 415 | **303** | 112 | 590 | 624 | 0 |
| No Bug locations and No Fix comments  (Fix bug – No Assertion) | 1938 | 137 | 184 | **147** | 37 | 1310  (Possible Reason)  Incomplete responses | Partial solutions | wrong operators ) | 307 | 0 |
| Bug locations and without Fix comments  (Fix bug – No Assertion) | 1938 | 218 | 511 | **374** | 137 | 706 | 502 | **1** |