

Absurd statistical certainty refers to the presentation of overly precise confidence intervals or performance metrics that suggest a level of accuracy or reliability far beyond what the data, context, or methodology can reasonably support.

△ Key Characteristics Tiny margins of error (e.g.,  $\pm 0.06\%$ ) in noisy, retrospective, or observational datasets

Overconfident claims based on model-internal cross-validation, without acknowledging real-world variability

Neglect of uncertainty sources: measurement error, data quality, population differences, or model drift

False sense of credibility: used to impress reviewers or readers, not to reflect statistical reality

□ In Context “The model predicted CAUTI with 97.63% accuracy ( $\pm 0.06\%$  CI).” → This absurd statistical certainty ignores clinical chaos, human variability, and structural confounding. It pretends that healthcare is physics. It isn't.

□ Why It's Problematic Undermines trust in medical AI and research

Encourages misguided confidence in tools not ready for deployment

Often reflects algorithmic vanity, not robust science

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