Crowdwave

AI-Powered Survey Simulation Engine

79% ERROR REDUCTION | **65** TESTS PASSING | **5.4M** CALIBRATION DATA

THE CHALLENGE & SOLUTION

Without Calibration

Raw LLMs are systematically wrong: over-predict positive sentiment, miss status quo bias, ignore demographic patterns. **9.1 pt average error.**

With Crowdwave

Calibrated against 5.4M responses, 8 bias corrections, 20+ industry benchmarks. **1.9 pt average error.**

ACCURACY ZONES — KNOW WHEN TO TRUST

Zone	Error	Question Types	Action
HIGH	±2-3 pts	Trust, awareness, party ID	Use for decisions
MED	±4-5 pts	Satisfaction, NPS, concern	Directional use
LOW	±8-15 pts	Intent, price, polarized	Validate first

AUTOMATIC BIAS CORRECTIONS

Emotional bonding (parent/child)	**+20% concern**
Senior tech adoption	**×1.30-1.65**
Status quo preference	**+15-20 pts**
AI concern (overcorrection)	**×0.90**
Intent-to-action gap	**×0.30 for "very likely"**
Social desirability	**-10-15%**

VALIDATION SOURCES

5.4M Survicate NPS

1,732 C-Suite Execs

20+ Industries

PRODUCTION-READY ENGINE

```
from crowdwave_engine import CrowdwaveEngine engine = CrowdwaveEngine()
report = engine.simulate( config={"audience": "US consumers 25-54"},
questions=[{"type": "scale", ...}] ) # Returns: distribution, mean, accuracy
zone, # biases detected, corrections applied
```

API REST | **SDK** PYTHON | **CLI** TERMINAL | **Docker** CONTAINER

COMPETITIVE ADVANTAGE

	Traditional	Generic AI	Crowdwave
Speed	4-8 weeks	Seconds	**Seconds**
Cost	$15-50K	~$0	**~$0**
Accuracy	Baseline	9.1 pts	**1.9 pts**
Confidence	Yes	No	**Yes**

BEST USE CASES

High Confidence

- Concept testing & ranking
- Audience sizing
- Feature prioritization
- Satisfaction benchmarks

Validate First

- Purchase intent
- Price sensitivity
- New product launches
- Polarized topics

KEY METRICS

79% ERROR REDUCED | **100%** WITHIN 5 PTS | **65** TESTS PASS | **100+** CALIBRATIONS

Ready for High-Stakes Projects

Production engine with documented accuracy you can defend to stakeholders

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