CMJ → Bat Speed Transfer Efficiency Summary (Filtered)

Input: data/hp_obp.csv
Filters: bat >= 40.0 mph, outliers <= ±3.0 SD

High School

Rows: 309
Model: bat_speed = 0.5324 * cmj + 40.3389
r = 0.555
Top over: 8663c08f-a037-411b-b330-e7d728e5c9d6 | CMJ 31.54 | Actual 70.70 | Pred 57.13 | +13.57
Top under: a2b6b021-1bf5-43b3-be94-acc92766806d | CMJ 34.89 | Actual 41.90 | Pred 58.92 | -17.02

College

Rows: 462
Model: bat_speed = 0.3479 * cmj + 52.2454
r = 0.450
Top over: 7845b762-4cb8-426b-ad8c-7879afa1dc48 | CMJ 39.43 | Actual 77.90 | Pred 65.96 | +11.94
Top under: e79b4477-5b5c-4ce4-ad79-275fa35b3dd7 | CMJ 37.87 | Actual 51.10 | Pred 65.42 | -14.32

Pro

Rows: 123
Model: bat_speed = 0.1337 * cmj + 64.3691
r = 0.208
Top over: a31ca164-1910-49c3-8abb-83555e16da5b | CMJ 36.17 | Actual 78.40 | Pred 69.21 | +9.19
Top under: 71a4841c-2a7f-46cd-ae15-f493f01b8ede | CMJ 32.08 | Actual 57.40 | Pred 68.66 | -11.26