Academic studies inconclusive about the impact of AI on productivity

Paper	Annual Productivity / TFP Gain (pp)	Horizon	Cumulative Level Effect	Key Assumptions
Acemoglu (2024)	0.07	10 years	0.7%	Narrow task coverage, slow diffusion, limited reorganization
Penn Wharton Budget Model (2024/25)	0.1–0.2 (peak)	10–20 years	1.5% by 2035; 3% by 2055	Task-based GPT framework, gradual diffusion, conservative adoption
Aghion & Bunel (2024)	0.2–0.4	10–20 years	2–6%	AI as GPT boosting innovation and creative destruction
Baily et al. (2023)	0.5 (peak)	10–15 years	5–10%	Broad diffusion comparable to late-1990s IT boom
Filippucci et al. (2024)	0.2–0.5	15–20 years	3–8%	Firm-level adoption, capital deepening, sectoral reallocation
Bergeaud (2024)	0.3–0.6	10–20 years	6–12%	Reallocation toward frontier firms dominates automation
St. Louis Fed (2025) — State of Generative AI Adoption in 2025	1.1%	2-3 years (2022-2024)	1.1% relative to pre-AI baseline	Based on Real-Time Population Survey time-savings and adoption, observational, early era evidence, not a structural long-run model