

Your AI's Experts Are Mostly Noise

A new algorithm reveals how AI decisions are shaped by randomness

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8.6

Average Components Activated per Token

SQUELCH reduces redundant activation in LoRA experts while improving performance.

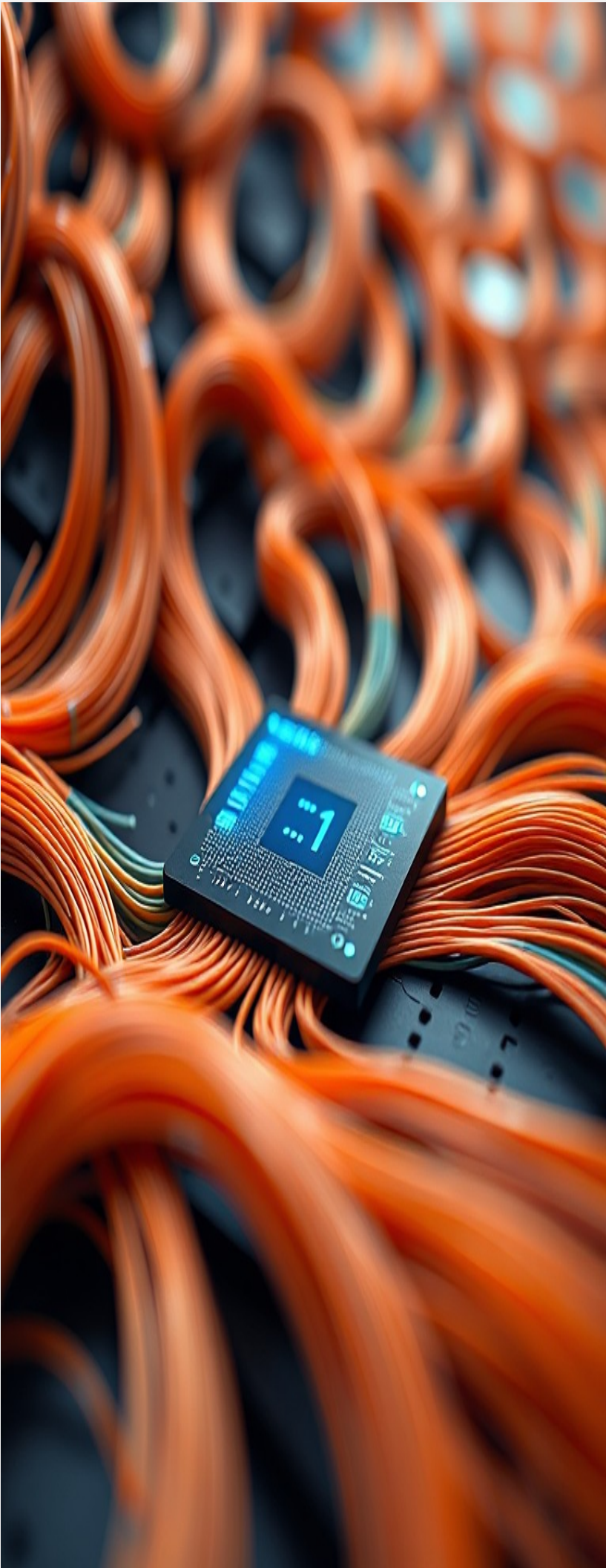
The average number of rank-one components activated per token in standard LoRA is 32, but SQUELCH reduces this to just 8.6—demonstrating that most activations are noise, not meaningful adaptation. This inefficiency stems from fixed, unthresholded routing that activates all components regardless of signal strength.



01

Noise Floor Is the Real Signal

This insight shifts the design paradigm: rather than pre-allocating ranks, the system learns to squelch noise on the fly, preserving computational sovereignty by avoiding unnecessary activation.



02

Explaining Away Beats Ranking

This is a direct challenge to the 'more experts, better performance' dogma. True intelligence isn't in more components—it's in smarter selection.

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