Demystifying Cost Efficiency In Llm Serving Over Heterogeneous Gpus

How LLMs Generate Text: GPUs, KV Cache, and Prefill/Decode - How LLMs Generate Text: GPUs, KV Cache, and Prefill/Decode 11 minutes, 6 seconds - Blog: https://cefboud.com/ X X: https://x.com/moncef_abboud 0:00 Introduction to **LLM**, Inference 0:24 Ingredient 1: Model Weights ... 8d78ca456a The mega kernel idea: one launch, all 24 layers 8d78ca456a Why a lower threshold means lower cost 8d78ca456a Rows That Never Talk 8d78ca456a Energy efficiency results: 68% more efficient 8d78ca456a Predicting Tokens and the KV Cache 8d78ca456a Continuous Batching for LLM Inference — Boost Speed \u0026 Reduce GPU Costs | Uplatz - Continuous Batching for LLM Inference — Boost Speed \u0026 Reduce GPU Costs | Uplatz 8 minutes, 27 seconds - Uplatz Explainer — As **LLM**,-based applications scale, inference speed, latency, and **GPU cost**, become major bottlenecks. 8d78ca456a How I cut token costs by 90%: AI cost optimization guide - How I cut token costs by 90%: AI cost optimization guide 19 minutes - I cut a startup's **LLM**, token **costs**, by 90%, **saving**, them **over**, $1 million a year. If you are an AI engineer struggling with expensive ... 8d78ca456a What is vLLM? Efficient AI Inference for Large Language Models - What is vLLM? Efficient AI Inference for Large Language Models 4 minutes, 58 seconds - Ready to become a certified watsonx AI Assistant Engineer? Register now and use code IBMTechYT20 for 20% off of your exam ... 8d78ca456a The algorithm: finding the confidence threshold 8d78ca456a The model cascade architecture 8d78ca456a GPU Specs Explained: VRAM \u0026 Memory Capacity 8d78ca456a Subtitles and closed captions 8d78ca456a How KV Cache Speeds Up LLMs for Faster AI Models on GPUs - How KV Cache Speeds Up LLMs for Faster AI Models on GPUs 11 minutes, 15 seconds - Learn more about **LLM**, inference here → https://ibm.biz/~Ewjm0UejN Why do LLMs crawl when traffic spikes? Legare Kerrison ... 8d78ca456a What is a CUDA kernel? 8d78ca456a Tokenization: Turning Text into Numbers 8d78ca456a Optimizing Metrics Collection \u0026 Serving When Autoscaling LLM Workloads - Vincent Hou \u0026 Jiří Kremser - Optimizing Metrics Collection \u0026 Serving When Autoscaling LLM Workloads - Vincent Hou \u0026 Jiří Kremser 35 minutes - Don't miss out! Join us at our next Flagship Conference: KubeCon + CloudNativeCon events in Hong Kong, China (June 10-11); ... 8d78ca456a Load Testing with Locust 8d78ca456a The experiment: porting the repo to an RTX 3060 8d78ca456a Mastering LLM Inference Optimization From Theory to Cost Effective Deployment: Mark Moyou - Mastering LLM Inference Optimization From Theory to Cost Effective Deployment: Mark Moyou 33 minutes - LLM, inference is not your normal deep learning model deployment nor is it trivial when it comes to managing scale, performance ... 8d78ca456a The secret to cost-efficient AI inference -

The secret to cost-efficient AI inference 2 minutes, 57 seconds - See the detailed reference architecture → https://goo.gle/4bKh5aR Learn how to use JAX, Google Kubernetes Engine (GKE) and ... 8d78ca456a Inference Is the Bottleneck Now: How to Architect LLM Serving in 2026 (vLLM, GPUs, Decentralized) - Inference Is the Bottleneck Now: How to Architect LLM Serving in 2026 (vLLM, GPUs, Decentralized) 6 minutes, 29 seconds - Hey everyone, In this video, I showcase how **LLM**, inference has become the primary compute bottleneck in production AI systems. 8d78ca456a 14 Why LLM Inference Costs Explode at Scale - 14 Why LLM Inference Costs Explode at Scale 6 minutes, 17 seconds - Want to support our project and to help us to keep this content free and develop new courses? Go to \"Buy Me a Coffee\" at: ... 8d78ca456a What a classification problem actually is 8d78ca456a Ingredient 3: Inference Engines (vLLM) 8d78ca456a Playback 8d78ca456a Many Requests, One Weight Load 8d78ca456a The real problem: cut cost, keep 95% accuracy 8d78ca456a Observing Autoscaling in Cloud Run 8d78ca456a General 8d78ca456a 3 LLM Cost Optimization Tricks Every Engineer Needs - 3 LLM Cost Optimization Tricks Every Engineer Needs 4 minutes, 2 seconds - Stop wasting tokens. In this video, I'll show you 3 AI token-**efficiency**, hacks that instantly cut your **LLM costs**, by up to 50% — with ... 8d78ca456a Can you trust a nano model's confidence score? 8d78ca456a Limitations: one model, batch size 1, BF16 only 8d78ca456a Running the cascade on all your tickets 8d78ca456a Understanding the LLM Inference Workload - Mark Moyou, NVIDIA - Understanding the LLM Inference Workload - Mark Moyou, NVIDIA 34 minutes - Understanding the **LLM**, Inference Workload - Mark Moyou, NVIDIA Understanding how to effectively size a production grade **LLM**, ... 8d78ca456a Introduction: The Challenge of Load 8d78ca456a Simulating thresholds for accuracy and cost 8d78ca456a Key Learnings: Decoupling and Cost Efficiency 8d78ca456a The Prefill Phase 8d78ca456a Introduction to LLM Inference 8d78ca456a The Payoff 8d78ca456a Ingredient 1: Model Weights 8d78ca456a Intro: The bold claim and why it matters 8d78ca456a LLM Fine-Tuning Without Millions: Saving on VRAM, QLoRA, and Cloud GPUs - LLM Fine-Tuning Without Millions: Saving on VRAM, QLoRA, and Cloud GPUs 14 minutes, 8 seconds - Cost,-**effective LLM**, fine-tuning using QLoRA to save VRAM and cloud **GPU expenses**,. 8d78ca456a How to Cut Your LLM Classification Costs by 90% - How to Cut Your LLM Classification Costs by 90% 25 minutes - Join the AI Evals September 2026 cohort: https://maven.com/parlance-labs/evals?promoCode=yt-2026 Most people treat ... 8d78ca456a Reduce LLM Inference Costs | Cut AI Bills Without Losing Performance - Reduce LLM Inference Costs | Cut AI Bills Without Losing Performance 10 minutes, 1 second - Your **LLM**, application works… But every user request **costs**, money. As your traffic grows, inference **costs**, can quickly become the ... 8d78ca456a The Real Reason Your LLM Deployment is Inefficient - The Real Reason Your LLM Deployment is Inefficient 9 minutes, 45 seconds - The Real Reason Your **LLM**, Deployment is Inefficient Today, we're diving into the complexities of running \"large language ... 8d78ca456a Autoscaling your AI agent under load - Autoscaling your AI agent under load 2 minutes, 59 seconds - This video demonstrates how to effectively autoscale

> your AI agent under heavy user load. We simulate a stress test **on**, a ... 8d78ca456a GPU Specs Explained: FLOPS (Compute vs. Memory Bound) 8d78ca456a Running it in Claude Code and speed results 8d78ca456a Introduction 8d78ca456a Grid sync: how GPU blocks coordinate without the CPU 8d78ca456a How normal LLM inference works (and why it's slow for small models) 8d78ca456a Keyboard shortcuts 8d78ca456a The CUDA Trick That Makes LLMs Faster AND Use Less Power (Real Results) - The CUDA Trick That Makes LLMs Faster AND Use Less Power (Real Results) 20 minutes - A 6-year-old NVIDIA **GPU**, beating Apple's latest M5 Max at running LLMs? I tested the claim **on**, my RTX 3060. Sign up for my ... 8d78ca456a Cascades vs black-box model routers 8d78ca456a Ingredient 2: Hardware Accelerators (GPUs) 8d78ca456a Search filters 8d78ca456a GPU Specs Explained: Memory Bandwidth 8d78ca456a How well it works: cutting 90%+ of cost 8d78ca456a Scheduling Every Iteration 8d78ca456a Waiting for the Slowest 8d78ca456a The Oracle plan: run the big model on everything 8d78ca456a Spherical Videos 8d78ca456a Continuous Batching - How LLM Servers Keep the GPU Full - Continuous Batching - How LLM Servers Keep the GPU Full 4 minutes, 14 seconds - Generating one token from a large language model means streaming every weight of the model out of memory, around 140 GB for ... 8d78ca456a Conclusion 8d78ca456a Demystifying LLM API Pricing \u0026 Latency 8d78ca456a The Decode Phase 8d78ca456a The Idle GPU 8d78ca456a What this proves and where it points next 8d78ca456a Netdev 0x1A - Performance Comparison of Transport Mechanisms for LLM Inference KVCache Transfers - Netdev 0x1A - Performance Comparison of Transport Mechanisms for LLM Inference KVCache Transfers 1 hour - Talk by Salim, Tammela, and Nogueira presenting a **GPU**, emulation technique using mathematical equations to generate realistic ... 8d78ca456a

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