

CompLabs

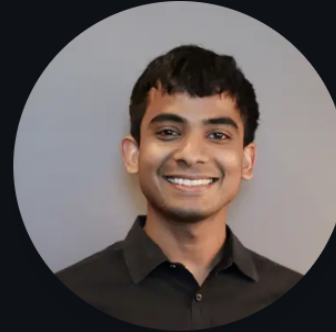
Faster simulations and better optimization

Who We Are

Hi! We're Noah and Chinmay.



Noah Evers

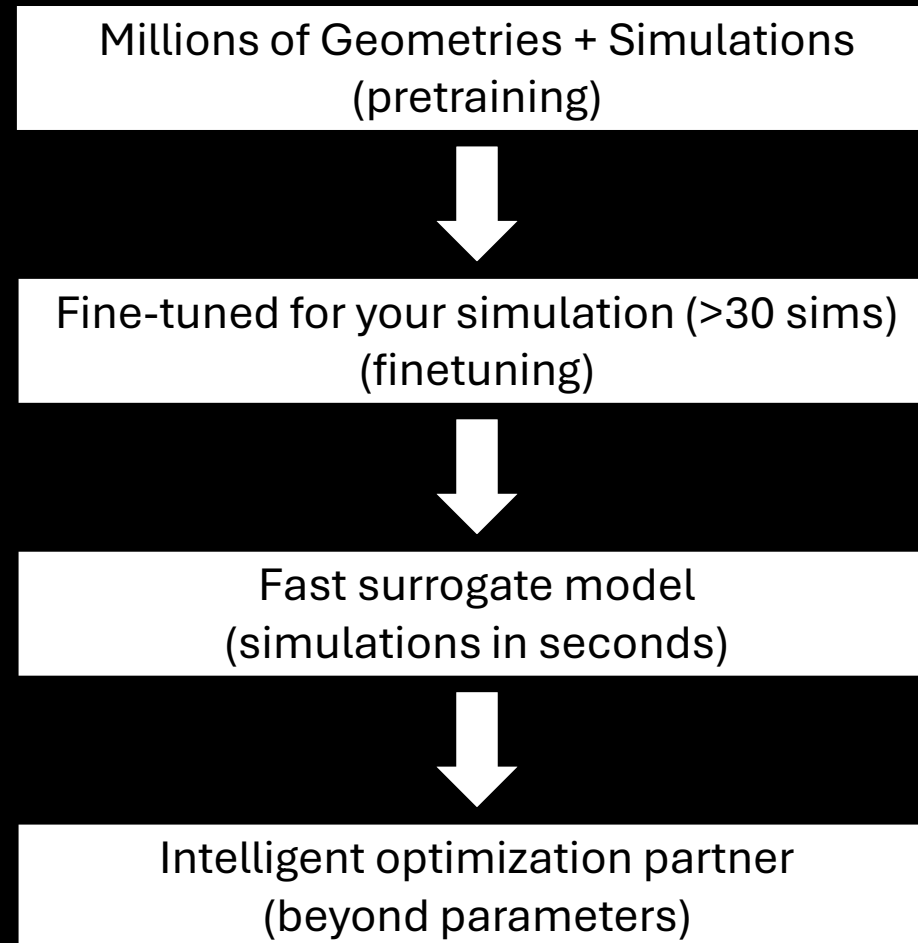


Chinmay Shrivastava

What We've Done

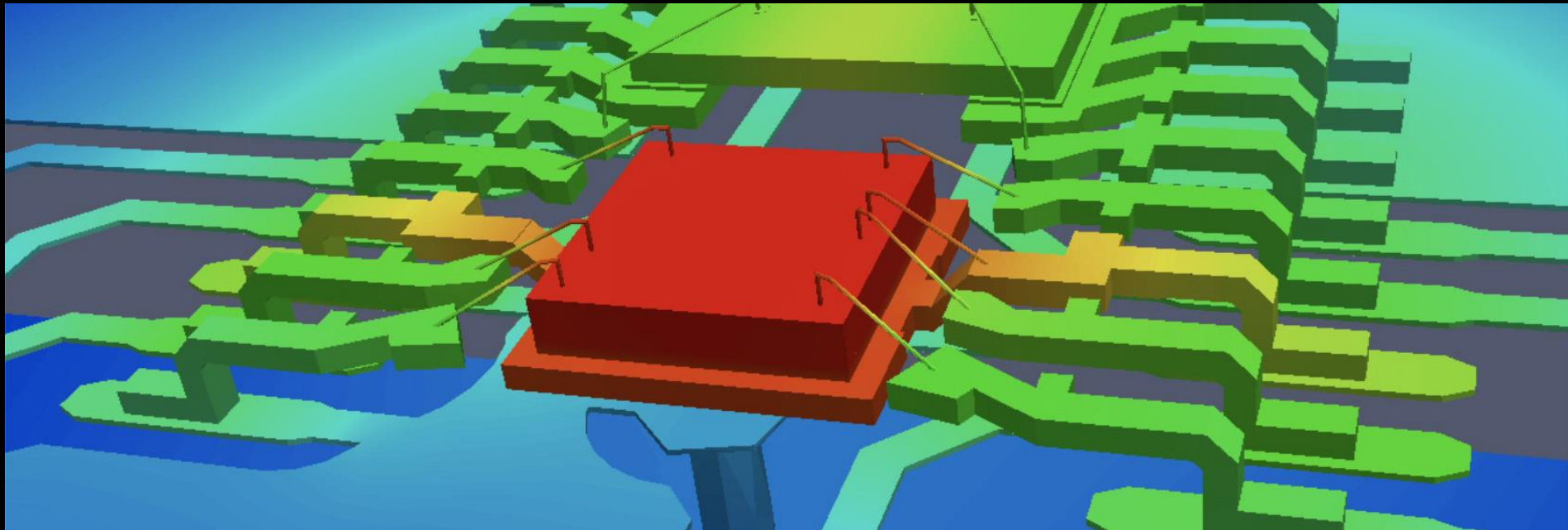
- Studied and researched at Harvard, IIT Roorkee, and Brown
- Published several studies and a patent
- Founded and sold a company that improved coffee with neuroscience
- Featured in Scientific American, NPR, US News
- Built AI automations for dozens of companies
- Trained a knowledge graph over the internet to provide personalized learning to 1,200 people, 3 months before ChatGPT was released
- Beat o1 on GPQA Biology 3 months before it was released
- 2nd place in a finite element analysis competition with 5,000+ participants
- Worked in reinforcement learning, deep learning, computational mechanics, cognitive science, and generative AI

What we're building



Faster simulations

- Run complex simulations in seconds
 - E.g. high-fidelity 3D simulations (CFD or FEA)
 - Can run any simulation in seconds on novel geometries



Numerical Solver Result

Runtime: 30 hours

AI Result

Runtime: 38.4 ms

↑ 2,812,500x Faster

Prediction Error

Pressure



0.747 0.814

Pressure



0.747 0.814

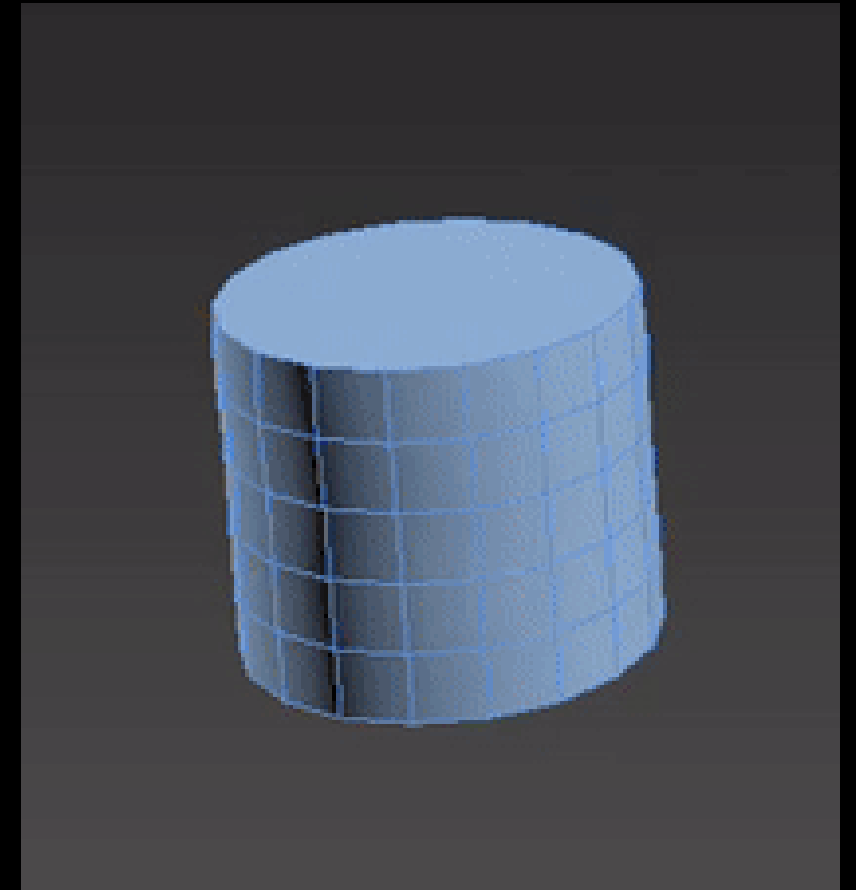
Error



0.000 1.000

Optimization, reimagined

- Our model understands geometries like humans
- It can reason about the shapes, rather than just change parameters
- Work faster, explore broader design spaces, and create better designs



Why this matters

- Search broader design spaces faster and find designs that parametric optimization misses



We'd love to collaborate

- Run your simulations in seconds and intelligently optimize your designs against high-level goals
- Raised \$3M+ from VCs and unicorn founders
- Designing model with some of the largest engineering firms
- We offer: faster simulation and better optimization
- Contact us:
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 - (310)344-5322