

ANIRUDH KISHAN KOTAMARTHY

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SUMMARY

Quantitative researcher with 3+ years of experience across data science, strategy, and software development, now focused on the infrastructure, supply chain, and political economy of frontier AI. Experienced in building and analyzing large datasets, modeling under uncertainty, and translating technical findings into actionable analysis for non-technical stakeholders.

EDUCATION

University of Illinois Urbana-Champaign, Champaign, IL **Aug 2022 – Aug 2023**
Master of Science, Technology Management; CGPA: 3.96/4.0

- Awarded *Academic Excellence Medal* for ranking in the top 5% of the class.

Osmania University, Hyderabad, India **Aug 2016 – Sep 2020**
Bachelor of Engineering, Mechanical Engineering

SKILLS AND INTERESTS

Skills: Market Research, Competitive Analysis, Go-To-Market Strategy (GTM), Agile Project Management, Cross-functional collaboration

Tools & Methods: Python (pandas, NumPy, scikit-learn, matplotlib/seaborn), R, SQL, Tableau, AWS (Redshift, S3, EMR, EC2), regression modeling, time-series forecasting, experiment design

Interests: AI safety and governance, AI hardware and semiconductors, algorithmic game theory and market design

WORK EXPERIENCE

Delight Consulting LLC - Detroit, MI **May 2024 – Sep 2025**
Data Scientist

- Assessed OTA and field fixes via controlled rollouts and statistical checks to quantify impact on failure rates and warranty cost, translating findings into recall and service recommendations.
- Developed early-warning and predictive-maintenance models for key components using gradient boosting and remaining useful life (RUL) modeling; delivered SHAP-based insights to quality engineers and dealers.
- Forecasted regional parts demand and tuned inventory policies at dealer/DC levels, improving service-level attainment and reducing stockouts and expedited freight through optimized safety stock and reorder points.

OSF Innovation - Peoria, IL **May 2023 – Aug 2023**
Go-to-Market Strategy Consultant

- Equipped the client's digital team with an SEO playbook that now guides editorial priorities by building a persona-driven keyword matrix and on-page checklist linked to user intent.
- Uncovered an untapped B2B sales channel, prompting OSF to initiate an Amazon Business storefront pilot by auditing competitor listings across e-commerce platforms.
- Reduced purchase-journey friction for STEM-kit buyers, validated in follow-up user tests by mapping the end-to-end checkout flow, spotting three high-friction steps, and delivering wire-frame fixes with development-hour estimates.
- Refined go-to-market focus to five high-value cohorts, enabling targeted Customer Acquisition Cost (CAC) modelling for the 2024 budget cycle by sizing and profiling various stakeholders.

ZF Group - Hyderabad, India **Jul 2020 – Jul 2022**
Software Development Engineer

- Reduced total development time by ~30% by implementing a new technique of parallel branch development, resulting in 100% completion of tasks within the sprint.
- Reduced the testing time by ~65% by leading an In-house unit-testing tool development project and saved INR 250K in the project's operating expenses.
- Defined 20+ Functional Requirements and created a product backlog to implement Gear-shift control.

RESEARCH & WRITING

- Dr G Laxmaiah, P Anjani Devi, Dr Ch Indira Priyadarshini, **Anirudh Kishan K.**, et.al., "*Design and Analysis of Semi-Recumbent Bicycle*" International Research Journal of Engineering and Technology (IRJET), Vol 9, Issue 6, 2022, pp. 2498-2505
- Kotamarthya, Anirudh K. (2025). *Chips, Power, and Policy: How Frontier AI Compute Constraints Shift from Silicon to Energy*. Quantitative **working paper** modelling GPU/TPU supply, packaging bottlenecks, and emerging power constraints on frontier AI.