Suchith Chidananda Prabhu

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Education

- **Indian Institute of Technology Delhi** — Delhi, India
  Ph.D. in Artificial Intelligence; GPA: 9.4 — *Aug 2021 - Present*
  Research topic: Memory-Augmented Models for Efficient Extreme Classification and Retrieval
- **National Institute of Technology Goa** — Goa, India
  Bachelor of Computer Science; GPA: 9.25 (First in class of 30) — *Aug 2015 - May 2019*

Publications

- **MOGIC: Metadata-Infused Oracle Guidance for Improved Extreme Classification** — ICML, 2025
  Extreme classification
  The MOGIC framework is a two-phase training strategy combining early fusion of textual metadata and late fusion of memory items with low latency. Phase one trains an early-fusion oracle using ground-truth metadata, and phase two uses the oracle to guide a memory-based XC model via regularization. MOGIC improves state-of-the-art XC performance by 1–2% while maintaining real-world inference latency.
- **Graph Regularized Encoder Training for Extreme Classification** — WWW, 2025
  Extreme classification
  RAMEN is a scalable and efficient extreme classification method that outperforms traditional GCNs by leveraging graph metadata to regularize a lightweight encoder. In A/B tests on Bing Ads, it boosted revenue by up to 1.5% and improved click-through rates by 0.6%, while benchmarks show up to 5% higher accuracy, 50% faster inference, and 70% fewer parameters.

Honors & Awards

- **Prime Minister's Research Fellowship** — *Jan 2023 - Present*
  PMRF Fellowship
  Awarded for excellence in research and academic achievements by the Government of India.

Experience

- **Vehant Technologies** — Noida, India
  Software Developer - UnderVehicle Scanning System — *July 2019 - July 2021*
  Led the stereo fisheye calibration of Blackfly S GigE cameras for undervehicle scanning, enhancing calibration and rectification processes. Conducted in-depth analysis of depth estimation algorithms, implementing the ELAS algorithm for precise depth estimation. Developed an automatic image comparison method for detecting foreign objects and created a signal processing framework for comprehensive image stitching of vehicle undersides.
- **Indian Academy of Science Summer Research Fellowship Programme** — Bengaluru, India
  Internship - Vijna Labs — *May 2018 - July 2018*
  Developed an AI framework for detecting adulterants in pharmaceuticals and oils, utilizing Infrared Spectrum Signature Analysis as the primary detection technique.
- **R. C. Bose Cryptology Internship** — Kolkata, India
  Internship - Indian Statistical Institute — *May 2017 - July 2017*
  Implemented and analyzed several consensus algorithms (Byzantine, Phase-King, Paxos) for decentralized systems. Developed a decentralized application on the Ethereum blockchain, leveraging cloud storage and blockchain data structures for secure and auditable data storage.

Course Work

- **Information Retrieval** — A
- **Natural language processing** — A-
- **Data Mining** — A
- **Numerical Algorithms** — A
- **Machine Learning** — B