ADARSH SHIRAWALMATH

VIT, Vellore

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Education

VIT, Vellore   **Sep. 2022 – Current(2026)**
Bachelors of Technology in Computer Science and Engineering CGPA - 8.5   *Vellore, TN*

Pace IIT and Medical   **June. 2020 – June. 2022**
Grade 12 Science 89/100   *Mumbai, MH*

Bal Bharati Public School   **2010 – March. 2020**
Grade 10 - 94.8/100   *Mumbai, MH*

Relevant Coursework

- Artificial Intelligence
- Data Structures
- Algorithms Analysis
- Database Management
- Theory of Computation
- Software Methodology
- Web Development
- Computer Architecture

Experience

Tensoic AI   **Sep 2023 – Current**
Founder   *Mumbai, MH*

- Founder of Tensoic AI, a pioneering AI research lab dedicated to advancing cutting-edge technologies and Research
- Spearheaded the development of the world's first Kannada language large language model (LLM), a groundbreaking achievement in the field of natural language processing for Indic languages.
- Successfully served one of India's largest corporations as a client, delivering innovative AI solutions and achieving a peak monthly recurring revenue (MRR) of 5,000 USD
- Pioneered research indic AI models, positioning Tensoic AI at the forefront of efficient and scalable model development.

CapX FI   **Current**
Lead AI Researcher   *Decentralized AI Network*

- Spearheading the development of the world's largest decentralized AI network, enabling a seamless integration of artificial intelligence capabilities across various platforms and applications.
- Achieved a remarkable milestone by successfully processing over one million transactions within 45 days of the launch of the Le Million Capx Testnet, demonstrating the scalability and robustness of the decentralized AI network.
- Collaborated with CoinList and the Capx Community to incentivize and support the testnet, fostering a strong ecosystem for the decentralized AI network.
- Driving research and innovation in decentralized AI technologies, exploring new frontiers in distributed computing, with systems like MLX and privacy-preserving algorithms(applets and cannisters), and secure data sharing mechanisms.

Projects and Publications

From Bytes to Borsch - UNLP 2024 Proceedings | *Python, Transformers, Azure Cloud Platform*   **March 2023**

- Fine-Tuning Gemma and Mistral for the Ukrainian Language Representation.
- Fine-tuned Gemma and Mistral LLMs with Ukrainian datasets, improving their linguistic proficiency and benchmarking against existing models.
- Introduced the Ukrainian Knowledge and Instruction Dataset (UKID) to aid future language model fine-tuning efforts.

Kannada LLaMA - one of India's First Indic AI Models | *Transformers, Azure Cloud Platform*   **March 2023**

- Lead and Developed Kannada Llama, India's first 7B parameter Indic language model specifically tailored for the Kannada language, addressing the limited representation of low-resource languages in AI.
- Pre-trained and Fine-tuned the open-source Llama-2 model on a 600 million token Kannada corpus using Low-Rank Adaptation (LoRA) technique, enabling efficient training with reduced computational resources.
- Further fine-tuned the model on curated chat-optimized and translated datasets to enhance its conversational capabilities, releasing variants under CC-BY-4.0 and Apache 2.0 licenses.
- Collaborated with Microsoft to access compute credits, facilitating the resource-intensive training process on GPU instances.

Technical Skills

Languages: Python, Java, C, C++, HTML/CSS, JavaScript
Developer Tools: VS Code, Atom, Azure Cloud Platform, Google Cloud Platform
Technologies/Frameworks: Linux, GitHub, Pytorch, Transformers, Tensorflow, WordPress

Leadership / Extracurricular

HackerOne   **Nov 2020**
Ethical Hacking   *Mumbai*
- Was awarded USD 2900 At age 15, Exploited Shopify's Digital Download App vulnerability to access latest purchase orders without valid checkout token.

VIT - Hackathons and Startups   **Present**
Student   *VIT, Vellore*
- Previously founded a Fintech AI company and receieved a grant of RS. 2.5 Lakhs for the same under the MEITY scheme
- Won Best Freshers Award - DevSoc'23 Codechef and VinHack'23 - VinnovateIT