Manav Singhal

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Education

National Institute of Technology Karnataka — Surathkal, India
B.Tech in Electrical and Electronics (Minor in Computer Science). — *July 2018 – July 2022*

- GPA: **9.03/10.00**

Industry Experience

Sarvam AI — June 2025 - Present
ML Researcher

- Post-trained Sarvam 30B and 105B MoE models on large-scale GPU clusters, achieving state-of-the-art agentic reasoning among open-weight models in their class with 68.3% on Tau2 beating GPT-OSS-120B at 65.8% and 49.5% on BrowseComp surpassing DeepSeek R1 at 3.2%.
- Built data curation and filtering pipelines for RL training covering stem, coding, and agentic tasks across single-turn and multi-turn environments, that helped achieve 96.7% on AIME 2025 and 71.7% on LiveCodeBench v6.
- Curated 10B+ tokens of agentic pre-training data from simulated environments and real-world documents, spanning multi-step reasoning, and long-horizon decision making. [30B] [105B]

Maxim AI — August 2024 - May 2025
ML Engineer

- Built and improved LLM evaluators for client agentic workflows through iterative prompt and rubric refinement.

Microsoft Research India — July 2022 - July 2024
Research Fellow. *Mentors: Aditya Kanade, Nagarajan Natarajan*

- Developed benchmarks and evaluation methodologies for code generation with Large Language Models (LLMs), focusing on evaluation of non-functional requirements of the generated code.
- Extensively evaluated twenty-two code LMs to discover they falter on our benchmark and don't sufficiently comprehend code they can otherwise edit. [Code]

Research Fellow. *Mentors: Nishanth Chandran, Divya Gupta and Dimitrios Dimitriadis*

- Improved global model accuracy in a one-shot federated learning setup with clients trained on non-IID data.
- Achieved 5%+ accuracy gain over baselines in the most non-IID setting by combining client logits and encoder output from a pre-trained autoencoder. [Paper]

Microsoft Research NYC — May 2021 - Sept 2021
Independent Research Developer. *Mentors: Pavithra Srinath and Olga Vrousgou*

- Achieved competitive performance between the public model without access to the user feature mapping and the private model with access in our analysis of our privacy-preserving feature in the VowpalWabbit library.
- Implemented two different approaches for the feature and compared the existing benchmarks performances of each, released in VW-9.0.0. [Slides], [Code], [Wiki]

Publications

Sarvam Sovereign Models
Manav Singhal *with the team at Sarvam AI*

NoFunEval: Funny How Code LMs Falter on Requirements Beyond Functional Correctness
Manav Singhal*, Tushar Agarwal, Abhijeet Awasthi, Nagarajan Natarajan, Aditya Kanade*
Conference on Language Modeling, ***COLM 2024****.*

Awards and Honors

- Selected for the Robotics Institute Summer Scholar (RISS) Program 2021 to pursue a summer research internship at the **Robotics Institute, Carnegie Mellon University**. Among 58 selected globally out of 700+ applicants.
- Selected for the Reinforcement Learning Open Source Fest (RLOSF) 2021 to pursue a summer research project with **Microsoft Research, New York City**. Among 10 selected globally out of 200+ applicants.
- Awarded the Summer Research Fellowship (SRFP) 2020 conducted by the **Indian Academy of Sciences** (IAS) to pursue a summer research internship at **IISc Bangalore**. Among top 5% selected out of 25,000+ applicants.
- Recipient of the OP Jindal Engineering Scholarship (OPJEMS) 2019. Among 80 selected out of 1100+ applicants.