




ROHIT VARTAK

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CURRENT POSITION

Research Assistant, Mohamed bin Zayed University of Artificial Intelligence (MBZUAI)

May 2026 – Present

Advisor: Prof. *Praneeth Vepakomma*, MIT & MBZUAI

My research focuses broadly on efficient, reliable, and interpretable machine learning systems, with current interests in reasoning, distillation, memorization, safety, and alignment in large language models.

EDUCATION

Duke University

Durham, NC, USA

Master of Science in Computer Science

2024 – 2026

GPA: **3.883/4.0**

Indian Institute of Technology Bombay

Mumbai, India

B.Tech. in Electrical Engineering







M.Tech. in Artificial Intelligence and Data Science

2019 – 2024

Cumulative GPA: **9.02/10.0**

PUBLICATIONS

**denotes equal contribution.*

- ▶ Akshay Paruchuri, Maryam Aziz, **Rohit Vartak**, Ayman Ali, Best Uchegara, Xin Liu, Ishan Chatterjee, and Monica Agrawal. “**What’s Up, Doc?: Analyzing How Users Seek Health Information in Large-Scale Conversational AI Datasets.**” *Findings of EMNLP 2025*.  
- ▶ Raghav Singhal*, Kaustubh Ponkshe*, **Rohit Vartak***, and Praneeth Vepakomma. “**ABBA-Adapters: Efficient and Expressive Fine-Tuning of Foundation Models.**” *ICLR 2026*; also presented at ES-FOMO @ ICML 2025 (**Spotlight**).  
- ▶ Raghav Singhal*, Kaustubh Ponkshe*, **Rohit Vartak**, Lav R. Varshney, and Praneeth Vepakomma. “**Fed-SB: A Silver Bullet for Extreme Communication Efficiency and Performance in (Private) Federated LoRA Fine-Tuning.**” *TMLR 2026* (J2C distinction–top 10% of accepted papers); also presented at ES-FOMO @ ICML 2025.  
- ▶ Praneeth Vepakomma, **Rohit Vartak**, Allan Zea, Subha Nawer Pushpita, and Vikrant Singhal. “**Several All-Pairs Distance Statistics with Node Differential Privacy, Including Several Moments and Distance Covariance.**” 2025. [\[paper\]](#)
- ▶ **Rohit Vartak**, Vivek Saraswat, and Udayan Ganguly. “**Robustness to Variability and Asymmetry of In-Memory On-Chip Training.**” *ICANN 2023*. [\[paper\]](#)

ACHIEVEMENTS & ACADEMIC EXPERIENCE

- Awarded the **Undergraduate Research Award** for an **exceptional bachelor’s thesis**
- Secured **All India Rank 1580** in **JEE (Advanced) 2019** among 1.5 million+ candidates
- Graduate Teaching Assistant for **EE746: Neuromorphic Engineering** (Fall 2023)