

# TEJAS AGRAWAL

tej-55.github.io

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## RESEARCH INTERESTS

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Sequence Modeling, LLMs for Code, Low-Resource ML, Representation Learning, Domain Generalization

## EDUCATION

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- **BITS Pilani K K Birla Goa Campus** Goa, India  
• *B.E.(hons.) - Electrical and Electronics Engineering; Minor in Data Science; CGPA: 8.14* 2021 - 2025  
*Courses: Machine Learning, LLMs, Foundations of Data Science, Optimization, Deep Learning, Applied Statistical Methods*

## EXPERIENCE

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- **Microsoft** Bengaluru, India  
• *Research Fellow – PROSE Team* July 2025 - present
  - Working on applications of LLMs to code and Spreadsheet environments in the PROSE team
  - Authored a benchmark and framework for evaluating next-action prediction in spreadsheets (**ICML 2026**)
- **CSALT Lab, IIT Bombay** Mumbai, India  
• *Research Intern* May 2024 - August 2024
  - Selected by IKDD (India chapter of ACM SIGKDD) as one of 11 students nationally for the Uplink Research Internship
  - Advanced ASR systems on low-resource accented speech under the guidance of Prof. Preethi Jyothi
  - Used Task Vector-based model-merging methods to get improved zero-shot performance on unseen accents
- **APPCAIR** Goa, India  
• *Student Researcher* July 2023 - May 2024
  - Worked under the guidance of Prof. Ashwin Srinivasan, Dr. Lovekesh Vig and Dr. Gautam Shroff
  - Designed multi-agent LLM debate simulations to probe argumentative reasoning failures
  - Extended CRMs, a form of ‘explainable neural networks’, to learn priors over molecule synthesis data using Autoencoders in a self-supervised manner

## PUBLICATIONS

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- **A Benchmark and Framework for Evaluating Next Action Predictions in Spreadsheets:**
  - Accepted at **ICML 2026**
  - Introduces a benchmark and evaluation framework for measuring a solver’s ability to predict the next user action in a spreadsheet setting
- **CountCLIP** [[GitHub](#)] [[arXiv](#)]:
  - Reproduction of ICCV 2023 paper *Teaching CLIP to Count to Ten*; released the previously unavailable implementation and the specialized dataset open-source

## PROJECTS

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- **Titans for Squared Amplitude Calculation** [[GitHub](#)]:
  - Compared the performance of a standard T5 transformer model against the more advanced Titans architecture for calculating squared amplitudes in particle physics
- **Graphormer Blogpost** [[link](#)]:
  - Accepted at the blogpost track of the GRAM Workshop @ **ICML 2024**
  - An introductory blog post for understanding the fundamentals of the NeurIPS 2021 paper *Graphormer*
- **Rank-N-Contrast for graphs** [[GitHub](#)]:
  - Reproduction of the NeurIPS 2023 Spotlight *Rank-N-Contrast*; evaluated its performance on graph regression tasks

## AWARDS

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- **IKDD Uplink Research Internship (2024):** Selected as one of 11 students nationally for a research internship at an IIT
- **Google DeepMind AI Symposium (2025):** Invited attendee (~75 students selected nationally)
- **Moveworks AI Hackathon (2023):** 2nd place out of 20 teams (~80 participants) in an overnight LLM hackathon

## SKILLS SUMMARY

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- **Concepts:** LLMs, Program Synthesis, Transformers, NLP, Computer Vision, ASR
- **Languages/Frameworks:** Python, PyTorch, Hugging Face, LangChain, NumPy, Pandas, Scikit-learn

## VOLUNTEERING

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- **SAiDL:** Core Member of SAiDL (12 members); organizer for events such as the AI Symposium and Google’s AI Booth
- **Instructor:** Taught student-run courses on Intro to ML and Intro to DL under SAiDL
- **Teaching Assistant:** FDCM for CS F437 GenAI at BITS Pilani Goa