

RISHABH GUPTA

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WORK EXPERIENCE

- Software Engineer at Google** July 2023 - Present
- **Google Cloud: Sales Compensation and Partner Incentives** : Building AI-powered solutions for partners and sales staff for incentivization.
 - Prev: *Project Aurora*: Built GenAI powered products, directly for customers in the manufacturing and automotive sector.
- Undergraduate Researcher at LCS2 Lab, IIIT-Delhi** May 2021 - June 2023
- *Supervisors*: Dr Tanmoy Chakraborty and Dr Md. Shad Akhtar
 - Worked on targeted class-conditioned counter-speech generation for online hate speech mitigation by learning discrete quantized vectors corresponding to the generation target.
 - Previously worked on detecting speaker personas in unimodal multi-party conversations.
- Research Intern at Extramarks and ADS Lab, IIIT-Delhi** May 2021 - June 2023
- *Supervisors*: Dr Mukesh Mohania and Dr Vikram Goyal
 - Working in the field of self-supervised NLP to improve the online pedagogical subspace
 - Theorised and implemented a novel self-supervised framework leveraging syntactic and contextual denoising with the fusion of grounded information for paraphrasing
- Software Development Intern at Media.net (Directi)** May 2022 - July 2022
- Developed an asynchronous application for automated task scheduling to streamline workflows
 - Designed an extensible framework for execution of tasks as well as implementing combination strategies to reduce latency
 - Integrated support for post analytics using different data models for meta-data logs
- Research Intern at Georgia State University and Midas Lab, IIIT-Delhi** Jan 2022 - May 2022
- *Supervisor*: Dr Ugur Kursuncu
 - Worked on the problem statement of generating multi-modal persuasive content

PUBLICATIONS

- ***Counterspeeches up my sleeve! Intent Distribution Learning and Persistent Fusion for Intent-Conditioned Counterspeech Generation***, *ACL'23 (Main Conference)*. [Rishabh Gupta](#), Shaily Desai, Manvi Goel, Anil Bandhakavi, Tanmoy Chakraborty, Md. Shad Akhtar. [\[paper\]](#)[\[code\]](#)
- ***James ate 5 oranges = Steve bought 5 pencils: Structure-Aware Denoising for Paraphrasing Word Problems***, *CIKM'23*. [Rishabh Gupta](#), Venkatesh V, Mukesh Mohania, Vikram Goyal. [\[paper\]](#)[\[code\]](#)
- ***'John ate 5 apples' != 'John ate some apples': Self-Supervised Paraphrase Quality Detection for Algebraic Word Problems***, *ECML-PKDD'22*. [Rishabh Gupta](#), Venkatesh V, Mukesh Mohania, Vikram Goyal. [\[paper\]](#)[\[code\]](#)
- ***Adding SPICE to Life: Speaker Profiling in Multiparty Conversations***, *COLING'24*. Shivani Kumar, [Rishabh Gupta](#), Md. Shad Akhtar, Tanmoy Chakraborty. [\[paper\]](#)
- ***NL-Augmenter: A Framework for Task-Sensitive Natural Language Augmentation***, *arXiv preprint*. Kaustubh Dhole, Varun Gangal, ..., [Rishabh Gupta](#), Louanes Hamla et al.

EDUCATION

Indraprastha Institute of Information Technology, Delhi

CGPA: 9.20/10

Bachelor of Technology, Computer Science and Engineering

Amity International School, Sector 43, Gurgaon

Grade XII: 96.6%

CBSE, Subjects: Physics, Chemistry, Mathematics and Computer Science

Grade X: 10.0/10.0

AWARDS AND ACHIEVEMENTS

- **Dean’s Award for Excellence in Research and Innovation** (*Calendar Year 2021-2022*)
- **Dean’s Award for Academic Excellence** (*Calendar Year 2021-2022*)
- **Dean’s Award for Academic Excellence** (*Calendar Year 2020-2021*)
- **Kishore Vaigyanik Protsahan Yojana Fellowship** *Awarded by IISc, Bangalore*
- **Google Research Week’23**: Among the 50 undergrads selected for the NLP track across India

SELECT PROJECTS

Uncertainty-Aware Neural Complexity Measures [\[code\]](#)[\[writeup\]](#)

- Implemented the NeurIPS’20 paper, Neural Complexity Measures on a new multitask dataset containing multiple regression and multi-class classification tasks
- Proposed *Uncertainty-Aware Gap Estimation*, which takes uncertainty of the meta-learner into account when estimating the generalization gap and demonstrated improved performance

NewsHelper [\[demo\]](#)

- Automated summary and headline generation with source classification for news articles
- Curated a novel dataset of over 60k news articles and leveraged transfer learning over pretrained transformer models with a two-stage training pipeline for sequence generation and classification

RELEVANT SERVICE

- *Reviewer*: **ACL’23, EMNLP’22, ACL Rolling Review**
- *Teaching Assistant*: **Meta-Learning** (Winter’23); **Optimization for ML** (Winter’22);
- *Volunteer*: **ICON’22**
- *Lead*: **Machine Learning Team, Google Developer Student Clubs, IIIT-D Chapter**
- *Member*: **Organizing Team, Odyssey’20** (IIIT-Delhi); **Student Council** (AIS, Gurgaon)

FEATURED COURSEWORK

- **Calendar Year (2022-2023), IIIT-D**: Reinforcement Learning (A), Bayesian Machine Learning (A+), Information Integration and Applications (A)
- **Calendar Year (2021-2022), IIIT-D**: Meta-Learning (A), Advanced Machine Learning (A), Natural Language Processing (A), Computer Networks (A)
- **Calendar Years (2019-2021), IIIT-D**: Probability and Statistics (A), Multivariate Calculus (A), Differential Equations (A), Analysis and Design of Algorithms (A), DBMS (A), Linear Algebra (A-)
- **MOOCs**: MITx 18.6501x: Fundamentals of Statistics, MITx 6.86x: Machine Learning with Python-From Linear Models to Deep Learning, Natural Language Processing Specialization, Mathematics for Machine Learning by Imperial College London, CS11-747: Neural Networks for NLP, CMU