Tathagat Verma

♥ tathagatv.github.io | in tathagatv | ♥ verma_tathagat | ♥ tathagatv | ⊠ tathagatswagverma@gmail.com EDUCATION

EDUCATION	
Stanford University , Stanford, USA Master of Science in Computer Science, Specialization - Artificial Intelligence	Sep 2022 - Mar 2024 (expected) GPA - 3.97/4
Indian Institute of Technology Bombay, Mumbai, India Bachelor of Technology in Computer Science and Engineering with Honors	Jul 2018 - Dec 2021 CPI - 9.64/10
 PUBLICATIONS 1. VarScene: A Deep Generative Model for Realistic Scene Graph Stathagat Verma, Abir De, Yateesh Agrawal, Vishwa Vinay, Soumen Chak 	-
Research experience	
Automated Process Mining with VLMs	Winter 2024 (ongoing) Hazy Research, Stanford University s in the WebArena environment
 Object Importance Classification and Natural Language Explanation Guides: Prof. Mykel Kochenderfer, Jiachen Li Research Assistantship Developed a deep learning model for importance classification and explanation Utilized CNN, Graph Neural Networks and attention based GRU for inter-object relationships and natural language generation respectively for the 	SISL, Stanford University generation in autonomous driving mage feature extraction, learning
 VarScene: A Deep Generative Model for Realistic Scene Graph Synt Guides: Prof. Soumen Chakrabarti, Prof. Abir De R&D Project Developed a deep generative model for novel scene graph synthesis using VAE 	thesis Autumn 2021 InfoLab, IIT Bombay and Graph Neural Networks
• Designed a goal oriented decoder for minimizing the maximum mean discrepan	· · · ·
 Deep Learning for Medical Image Quality Enhancement Guide: Prof. Suyash Awate R&D Project, Bachelor's Thesis Project Enhanced the quality of MRI images with sub-sampling and Gaussian noise in images with Poisson noise under the weakly-supervised regime using RED-CI 	
Internships & Projects	
 Bad Label Detection Scale AI Machine Learning Research Engineer Intern Developed a bad label detection framework to identify mislabeled data points 	Summer 2023 San Francisco, USA for IG reel genre classification
• Finetuned multimodal video classification models for bad label detection,	getting 6% labeling cost reduction
 Image Functionality in the Whiteboard Android Application Microsoft India (R&D) Pvt. Ltd. Software Engineer Intern Integrated Microsoft Lens SDK into Whiteboard Android, to support image Worked in Java Android backend, building the bridge to send images from nat 	
Attribute Value Extraction from Product Descriptions	Summer 2020
 Coupa Software India Pvt. Ltd. Data Science Intern Developed unsupervised and semi-supervised methods for extracting attribute Implemented an RNN model for sequence tagging using CRF, BiLSTM and 	
 Mitigating Scams and Catfishing on Dating Apps through Automati Guide: Alex Stamos Trust and Safety Engineering Demo Developed a Discord bot with user-reporting and moderation workflows on a Leveraged regex, image-captioning and GPT-3.5 to handle automated flag 	$ \begin{array}{lll} {\bf c} \ {\bf Moderation} & Spring \ 2023 \\ Course \ Project \\ a \ dating \ app \ simulation \ in \ Discord \\ \end{array} $
Scholastic achievements	
• Secured All India Rank 53 in JEE Advanced out of 200,000 candidates	2018
• Secured All India Rank 34 in JEE Main out of 1.2 million candidates	2018
 Amongst top 30 in India selected for the International Astronomy Olym Amongst top 35 in India selected for the International Mathematical Ol 	
Leadership Positions	
IIT Bombay Student Mentorship Program Mentored 12 freshmen and 8 CS sophomor Teaching Assistant AI and ML; Data Structures and Algorithms; Logic for	-
Stanford University Teaching Assistant Machine Programming CS 220M: NLP with Deep Lear	ning CS 2010: