Yash Lara

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Education

Georgia Institute of Technology, School of Interactive Computing *Atlanta, GA*
MASTER OF SCIENCE, HUMAN-COMPUTER INTERACTION (HCI) | GPA: 4.00/4.00 *Expected Graduation: April 2021*
- Coursework: Machine Learning | Deep Learning (ongoing) | Computer Vision (ongoing) | AI and Ethics | Data Visualization | Project Management | Human Centered Computing | Management of Technology | Ethics and Social Justice | HCI Foundations | Research Methods for HCI

National Institute of Technology Karnataka (NITK) *Surathkal, India*
BACHELOR OF TECHNOLOGY, CHEMICAL ENGINEERING | GPA: 8.3/10.00 *June 2014 - May 2018*
- Coursework: Linear Algebra | Probability Theory | Calculus I | Calculus II | Numerical Methods | Customer Marketing | Services Marketing | Engineering Economics | Brand Management

Experience

Walmart *Bentonville, AR*
DATA SCIENTIST INTERN, DATA GOVERNANCE AND STRATEGY *June 2020 - August 2020*
- Worked on Data Productization, Data Governance and Data Strategy for the organisation.
- Developed data governance policies and strategies to productize data and drive business revenue from the data products.
- Worked with the Legal and Digital Citizenship team to initiate an Ethical AI and Data Ethics framework at Walmart.
- Conducted thorough analysis of data sets to ensure compliance and quality before being used in ML algorithms.

Georgia Institute of Technology *Atlanta, GA*
GRADUATE RESEARCH ASSISTANT, DIGITAL INTEGRATIVE LIBERAL ARTS CENTER (DILAC) *August 2019 - Present*
- Designed and Developed Web and mobile Applications for DILAC.
- Conducted research on data visualization techniques of human heart beat pattern and the effect of sound and light on it. Heart Sense
- Co-managed the feminist STS (Science Technology and Society) scholarship for the journal: *Catalyst: Feminism, Theory, Technoscience*

Deloitte US-India *Hyderabad, India*
BUSINESS TECHNOLOGY ANALYST *Aug 2018 - July 2019*
- Worked as a Front-End Developer in the Customer and Marketing Division.
- Used Angular 6 to develop an insurance portal for clients. Improved client sales by 21% through the portal.
- Completed two Firm Initiatives in UX. Developed low and high fidelity prototypes for websites for two projects related to Health and AI.

Skills

Strengths:	Machine Learning, Deep Learning, Responsible AI, Ethics and Social Justice in Tech, Human-Centered Computing
Languages/Libraries:	Python, Pandas, Numpy, C, JavaScript, jQuery, Matlab, SQL
Tools/Technologies:	PyTorch, TensorFlow, Twitter API, Angular 6, Google What-if Tool, Tableau, HTML 5, CSS 3, Adobe Creative Suite, Sketch, Figma, Git, Agile Methodology, Jira, Latex
Research Methods:	Formative and Evaluative Qualitative Research (ethnography, contextual inquiry, workplace interviews, usability and user testing, lab studies), Quantitative Research (e.g. survey research, experimental design, A/B tests) Presentation of Concise Findings and Recommendations to Stakeholders

Projects

Face Mask Detection, ML Course *Georgia Tech, Fall 2020*
- Developed different Supervised and Unsupervised Learning models for Face Mask Recognition.
- Evaluated the efficacy of each model and worked on improving the robustness of the existing model

Developed a Neural Network without any inbuilt functions, Deep Learning course *Georgia Tech, Spring 2021*
- Developed single layer softmax, and Two layer neural networks from scratch.
- Implemented Activation function, Regularization, Back propagation and Gradient descent.
- Implemented Hyper-parameters tuning for better training.

Developed a Convolutional Neural Network from scratch *Georgia Tech, Spring 2021*
- Developed a CNN model from scratch using PyTorch.
- Implemented the CNN architecture based on latest research in the field of Deep Learning.

Hybrid Images and Edge Detection, Computer Vision Course *Georgia Tech, Spring 2021*
- Created hybrid images using PyTorch and developed Harris Corner Detection algorithm, Computer Vision Course.

COMPAS Dataset Bias Analysis using Python, AI Ethics Course *Georgia Tech, Spring 2020*
- Did extensive data analysis of existing COMPAS dataset in order to identify bias.
- Evaluated the efficacy of different debiasing algorithms on the dataset and predictions.
- Worked with IBM 360 and Google What-if tool to understand the fairness vs. accuracy trade-offs for these debiasing methods.

Bias and Fairness Analysis of Google News Dataset, AI Ethics Course *Georgia Tech, Spring 2020*
- Analyzed the Google News data set for biases and fairness using Word2vec.
- Evaluated word pair biases with respect to protected variables for religion, race and gender.

Project Management Case studies, Project Management Course *Georgia Tech, Spring 2020*
- Completed case studies on Extreme programming, Agile, SCRUM, Kanban and PRINCE2 for different tech companies.
- Evaluated the efficacy of each project management style in different use cases.

Understanding Online Hate Speech in India, Capstone Project (Ongoing) *Georgia Tech, Ongoing*
- Performed Sociolinguistic analysis and inquiry of online hate speech in India .
- Developing a Data visualization dashboard of online hate speech in India using real-time Twitter data .