

Aditya Vikram

✉ adityavikram54@gmail.com | ☎ (404)397-3655 | 🏠 adityavk.github.io | 💼 linkedin.com/in/adityavk

Education

Georgia Institute of Technology, College of Computing

Graduation: May 2024

MASTER'S IN COMPUTER SCIENCE, SPECIALIZATION IN COMPUTING SYSTEMS

Aug 2022 - Present

- Relevant coursework: Advanced Operating Systems, Machine Learning Theory, Graduate Algorithms, Computer Animation, Applied Cryptography, Dynamic Algebraic Algorithms

Indian Institute of Technology Kanpur

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B.TECH. (ELECTRICAL ENGINEERING); MINORS IN ALGORITHMS AND MACHINE LEARNING

2014-2018

- Received *Academic Excellence Awards* for outstanding academic performance for academic years 2016-17, 2015-16 and 2014-15
- Relevant coursework: Intro to ML, Intro to NLP, Probabilistic Modeling & Inference, Algorithms-II, Randomized Algorithms

Work Experience

Graduate Teaching Assistant

Atlanta, US

GEORGIA INSTITUTE OF TECHNOLOGY: CS7641 MACHINE LEARNING

Sep 2022 - Present

- Evaluated students' reports and provided valuable feedback on the Machine Learning techniques used in their experiments

Computer Scientist - 1

Bengaluru, India

ADOBE INC.

July 2018 - Aug 2022

- Received *Spot Awards* in FY 2019-20 and 2020-21, and *Special Contribution Award* in FY 2021-22 for exemplary contributions to critical projects at Adobe
- Prototyped and implemented tools for third-party extensibility in a Creative Cloud Web app to increase developer engagement
- Mentored and helped new teammates to ramp-up on the above extensibility platform
- Implemented a user-facing request-access workflow for enabling collaboration in cloud documents
- Architected a process to modularize components of a UI library, reducing the size of multiple Adobe iOS apps by around 5 MB
- Improved performance and launch time of dynamic paywalls by 50%, resulting in increased revenue due to greater engagement
- Implemented a batching & caching mechanism for collecting analytics in offline state for Universal Windows Platform (UWP)
- Implemented reconnection mechanism to work around flaky appservice bridge in UWP, eliminating 10% of observed crashes

Research Intern

Bengaluru, India

ADOBE INC.

May 2017 - July 2017

- “*Visualizing and designing a navigable interface for a large-scale image gallery on a 360 canvas*”: Given the problem area of Virtual Reality websites, surveyed existing work, brainstormed and chose the problem statement
- Proposed a novel layout for an image gallery in virtual reality and implemented it for Samsung Gear VR in Unity
- Formed an Image similarity graph from a 150,000 image dataset & implemented a tag-based image search intuitive to VR users

Projects

Online MCMC based Bayesian Inference [Report]

Prof. Piyush Rai

COURSE PROJECT FOR “TOPICS IN PROBABILISTIC MODELING AND INFERENCE”

Jan'18-Apr'18

- Performed a survey of Online Markov Chain Monte Carlo methods, important for bayesian inference over a large dataset
- Studied and implemented Stochastic Gradient Riemannian Langevin Dynamics (SGRLD), an extension of SGLD which overcomes its limitations in constrained settings

Grammatical Error Correction in Sentences [Report]

Prof. Harish Karnick

COURSE PROJECT FOR “INTRODUCTION TO NATURAL LANGUAGE PROCESSING”

Jan'18-Apr'18

- Implemented a LSTM based sequence-to-sequence (*seq2seq*) model using *keras* to correct grammatical errors in sentences, using LSTMs for encoding and decoding
- Trained the *seq2seq* model on NUCLE dataset with sub-sampling and suggested improvements to improve correction accuracy

Brittle ML: Playing Satan

Prof. Purushottam Kar

COURSE PROJECT FOR “INTRODUCTION TO MACHINE LEARNING” [Report]

Aug'17-Nov'17

- Studied various models of adversarial attacks on Machine learning models, especially convolutional neural nets
- Successfully implemented a blackbox attack on Inception-v3 in Tensorflow to craft adversarial examples for images

Technical Skills

Languages C++, Python, Typescript, C++/CX, Objective C, Swift, Javascript, Shell, \LaTeX

Frameworks/ Tools NodeJS, React, Redux, Cocoapods, TensorFlow, Git