AKHIL GOEL

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EDUCATION

Georgia Institute of Technology, Atlanta, GA

Aug 2018 - July 2023

M.S. in Computer Science - Machine Learning

GPA: 3.5/4.0

Notable Coursework: Machine Learning (ML), Natural Language Processing (NLP), Interactive Robot Learning (Reinforcement Learning), Convex Optimization, High Performance Parallel Computing (HPC)

B.S. in Mathematics & Computer Science — College of Science Dean's Scholarship

GPA: 3.67/4.0

Notable Coursework: Data Structures, Algorithms, OOP, Deep Learning, Computer Vision, Perception, AI, Computer Architecture, Systems, Databases, Networking, Linear Algebra, Probability, Statistics, Analysis

Thomas Jefferson High School for Science and Technology (TJHSST)

Aug 2014 - May 2018

WORK EXPERIENCE

Google

May 2022 - August 2022

Mountain View, CA

- · Designed and implemented low-latency subscription free-trial fraud detection system for Google Play Store.
- · Analyzed revenue impact of abuse checks and created user experiments to enable ramp-up of abuse verdicts.

Meta (Facebook AI Applied Research)

May 2021 - August 2021

Software Engineering Intern

Software Engineering Intern

Menlo Park, CA

- · Developed influential instance model interpretability algorithms for Captum, an open-source PyTorch library.
- · Implemented novel algorithms from recent research publications and created tutorials for influence methods.
- Designed rigorous testing frameworks and applied algorithms to large Facebook AI Multimodal models.

Varian Medical Systems

May 2020 - August 2020

Software Engineering Intern

Atlanta, GA

• Built automized data preprocessing pipeline and deep volumetric segmentation models for tumor identification.

MIT Lincoln Laboratory

June 2019 - May 2020

Summer Research Intern & Student Technical Researcher

Lexington, MA

- Developed algorithm for novel brain imaging method using Monte Carlo techniques. Co-Authored publication.
- 1st Place Team prize for proposal on automatic American Sign Language translation. Received funding.

RESEARCH

Visually Grounded PointGoal Navigation at CVMLP Lab

August 2021 - May 2022

Developing visual saliency methods for deep RL agent point-goal navigation in dynamic home environments.

Autonomous Robot Navigation at Georgia Tech IVALab

Jan 2019 - May 2020

Integrating reinforcement learning algorithms with traditional local planning and controls for robotics.

TECHNICAL SKILLS

Programming Languages Python, C/C++, Java, CUDA, Bash, SQL, Solidity

Technologies & Tools

PyTorch, TensorFlow, Pandas, OpenMP, MPI, Git, Docker, AWS, Qiskit

LEADERSHIP & EXTRACURRICULAR

External Operations - The Agency: President for AI/ML research club at Georgia Tech.

Graduate TA - Computer Vision: Led keypoint matching project (SIFT), taught students in office hours.