AKSHAY SHARMA

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EDUCATION

Columbia University New York, NY

MS in Computer Science, Natural Language Processing Track

Expected Dec 2022

Courses: Reinforcement Learning, Deep Learning for Computer Vision, Natural Language Processing

Indian Institute of Technology (BHU)

Varanasi, IN

Dual Degree in Mathematics and Computing, CPI: 9.03/10.0

May 2021

Courses: Optimization Techniques, Digital Image Processing, Machine Translation

WORK EXPERIENCE

Rejoy HealthProduct Manager
Jan 2021 - Jul 2021

Developed product strategy for the YC backed startup's apps (Android, IOS and MacOS)

• Launched 3 new features in 6 months, resulting in a 30% MoM growth in user engagement

Goldman Sachs
Summer Analyst
Bengaluru, IN
May 2020 - Jun 2020

• Developed a micro-services health check backend using Prometheus and Apache Kafka

• Created analytics platform in React.JS and Spring for Consumer and Asset Management Division

Adobe Noida, IN

Product Intern May 2019 - Jul 2019

Created Hand-drawn Sketch Classification with context information using Google Sketch RNN

• Fetched user's art journey utilizing Adobe Spark and developed a Photoshop plugin in React JS to summarize it to a blog

SKILLS & INTERESTS

PyTorch, Tensorflow-Lite, Flutter, React Native, MERN Stack, AWS, Apache Kafka, Spark, Julia Organized inter-college competitions and guest lectures as the Campus Lead, Google Developer Student Club Led workshops and hackathons as Joint Secretary of Club of Programmers, IIT Varanasi

ENGINEERING PROJECTS

Google Summer of Code 2020

Jul 2020 - Sep 2020

Designed DiffOpt.jl, a differentiable convex optimization programming package in Julia

Research Intern, Indian Statistical Institute, Delhi Center

Dec 2019

Collaborated with research team of Prof S. K. Neogy to improve a confidence-weighted algorithm for online, large-scale classification task on the common crawl dataset by 10%

Google Summer of Code 2018

May 2018 - Aug 2018

• Designed and built a Native C++/Android SDK for real-time object detection and pose estimation on smartphones with Prof. Fabien Spindler at Team Rainbow, INRIA

ACADEMIC PROJECTS

Scalable Clustering of Lines - Thesis

• Introduce a scalable algorithm for clustering lines and affine subspaces of fixed dimensions via data reduction leveraging a coreset approximating scheme

KKT Conditions for Interval Optimization - UG Project II

• Defined the notion of gH differentiability for Interval Optimization and built a Python package for programs with a deterministic interval objective function

Discounted Stochastic Games and Applications - UG Project I

- Volunteered for implementing a markov perfect game in AMPL and conducted sensitivity analysis of the constraints
- Wrote the article: Ghosh, D., Sharma, A., Shukla, K.K. et al. Globalized robust Markov perfect equilibrium for discounted stochastic games and its application on intrusion detection in wireless sensor networks: JJIAM, 37, 283–308 (2020)