Varun Gande

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Work Experience

eCornell Alpha Tester
Cornell Instructional Technology Group
March 2022 to Present

Reviewing the eCornell AI Foundations course and giving suggestions on how to improve course content
Providing concise feedback via eCornell's bug-tracking application BugHerd

Undergraduate Researcher
Dr. Amnon Koren's Lab
January 2022 to Present

Exploring the genetic role of DNA replication timing (RT) in the context of mutation-related factors
Developing a pipeline for querying genomic information and returning essential genetic information

Education Subteam Member
Cornell Data Science Project Team
August 2021 to Present

Grading assignments/projects and giving lectures for the team's Introduction to Machine Learning class
Redesigning our tutorials website to offer comprehensive overviews of common ML topics

Mathematics Tutor
Cornell Math Support Center
August 2021 to Present

Providing mathematics help for Cornell students in differential equations, linear algebra, and statistics
Leveraged a variety of techniques for comprehension in homework and lecture content

Undergraduate Consultant
Cornell Computer Science
August 2021 to December 2021

Held office hours and assisted in small discussion sections for the CS 1112 (Introduction to MATLAB) class
Graded homework exercises, collaborative projects, and cumulative exams

Researcher
Southern Methodist University REU (NSF #1840260)
June 2021 to July 2021

Revised an algorithm to accurately detect neuron cell assemblies in simulated spike train sequences
Explored "thermalization" upon inclusion of quadratic/cubic nonlinearity in the Fermi-Pasta-Ulam model

Presented an academic poster at the 4 th Annual TX-LA SIAM Conference in Applied Mathematics

Instructional Assistant
Kumon Math and Reading Center
September 2015 to March 2020

Tutored, graded classwork, and prepared homework for students in the Dallas area in Math and Reading

Summer Research Intern
UT Southwestern STARS Program
June 2019 to July 2019

Studied the role of the Hedgehog pathway in the accumulation of reactive oxygen species in mouse lung adenocarcinoma and the use of pimonidazole as a hypoxia marker

Education

B.S. in Operations Research and Information Engineering, Computer Science
Cornell University - Ithaca, NY
August 2020 to Present

Skills

- MATLAB
- Java
- MS Office
- GitHub
- SQL
- Python (Pandas, Numpy, Sklearn)

Links

http://linkedin.com/in/varun-gande