Varun Venkatesh

varunvprof@gmail.com 5519984896 github.com/varunvenkatesh7 linkedin.com/in/varunvenkatesh7

Education

University of Pittsburgh 08/2019 – 05/2023

Bachelor of Science, Computer Science

- GPA: 3.98/4.0
- Dean's List Recipient

Relevant Coursework: Practical Artificial Intelligence, Deep Learning, Algorithm Implementation, Data Structures, Computer Organization, Applied Statistical Methods, Discrete Mathematics, Calculus II

Experience

NVIDIA 10/2020 – Present

Incoming Software Engineer Intern

- Making unique contributions to solving some of the world's most stimulating technology problems

University of Pittsburgh 08/2020 – Present

Teaching Assistant

- Instructing a weekly class of 25 students, for Intermediate Programming in Java
- Preparing, demonstrating, and grading class material

University of Pittsburgh 05/2020 – 08/2020

Software Developer

- Designed a QR code generation tool that was used in the categorization of biological samples, using JavaScript and HTML
- Procured and handled existing data from databases to improve dynamic collection and usage, as well as optimizing dataflow to allow weekly report automation in Tableau

Skills

Languages
Java, Python, C, JavaScript, Assembly, HTML

Frameworks/Technologies
TensorFlow, Keras, PyTorch, Pandas, NumPy, Git, Google Cloud Platform

Projects

Twitter, COVID and Mental Health

- Used Natural Language Processing to form correlations between politically charged COVID-19 tweets and a relatively worsened state of general sentiment on Twitter
- Predictions were made using 2 binary text classification models and a sentiment analysis model

Custom Neural Network

- Designed an informal infrastructure in Python that creates customizable Neural Networks from scratch that uses backpropagation and stochastic gradient descent to minimize loss
- This infrastructure was then implemented and used to classify handwritten digits

CalBot

- Made a Calendar bot that uses data scraped from course details to deliver regular assignment-based reminders to 250 people
- Created in Python, the bot posts reminders through the GroupMe API

Pittsburgh's Best Neighborhood

- Collaborative project that ranks neighborhoods in Pittsburgh by analyzing regional data based on parameters such as green space, population density and crime data.