Varun Venkatesh

💌 varunvprof@gmail.com 🕠 github.com/varunvenkatesh7 in linkedin.com/in/varunvenkatesh7 📞 5519984896

EDUCATION

University of Pittsburgh

BS Computer Science, 3.94 GPA

08/2019 - 05/2023

Relevant Coursework: Deep Learning, Practical Artificial Intelligence, Operating Systems, Algorithm Implementation, High Performance Computing, Linear Algebra, Applied Statistics

EXPERIENCE

NVIDIA 05/2021 - 08/2021

Software Engineer Intern, Enterprise

Santa Clara, CA

- Implemented new backend features to the EGX Platform for accelerated computing and NVIDIA-Certified Systems using Bash, Python and MongoDB
- Integrated a recommendation engine into a user-facing chat application using Python and NVIDIA **Jarvis**

University of Pittsburgh 01/2021 - 04/2021

Machine Learning Research Assistant

Pittsburgh, PA

- Explored Multimodal Embeddings in the context of image-text data to achieve weakly supervised learning using PyTorch
- Used Discourse Relations on captions to enhance understanding of corresponding visual data

University of Pittsburgh 08/2020 - 04/2021 **Teaching Assistant** Pittsburgh, PA

· Preparing course material and instructing a weekly cohort of students for Intermediate Programming in Java

05/2020 - 08/2020 University of Pittsburgh

Software Developer • Eliminated redundant work hours by creating a QR code generation tool using JavaScript and

HTML that was used to categorize biological samples in bulk • Improved dynamic data collection and automated weekly report generation in Tableau

Pittsburgh, PA

SKILLS

Languages

Python, Java, C, Bash, MIPS, x86, JavaScript, HTML

Machine Learning Libraries

PyTorch, TensorFlow, Keras, scikit-learn, Natural Language Toolkit, pandas, numpy, matplotlib

Tools/Frameworks

Kubernetes, Docker, Git, MongoDB, FastAPI, Google Cloud Platform

PROJECTS

Twitter, COVID and Mental Health

 Productionalized 2 binary text classification models and a sentiment analysis model on Google Cloud Platform using Python and Flask and marked tweets as politically biased and COVID-biased

Custom Neural Network

- Designed a low-level infrastructure in Python that creates customizable Neural Networks for any classification task
- Backpropagation and stochastic gradient descent were used to minimize loss

CalBot

Created a Python bot that delivered reminders to 250+ people using the GroupMe API after scraping a course calendar