Brandon Govindarajoo, Ph.D.

bgovi@umich.edu https://www.linkedin.com/in/bgovi (317) 908-3313

Skills

- Machine Learning and Big Data Analytics
- Text/NLP Knowledge Graph
- Database Management, ETL and Mining
- Image Processing and Time Series Analysis
- Python/Cython (advanced)
- SQL/HTML/CSS/JavaScript
- Package Deployment, CI/CD, Docker
- Resource Deployment: Linux, Azure, Fly.io

Experiences

NOVEMBER 2018 – PRESENT

Data Scientist / Indiana University Health: Indianapolis, IN

Function as Full Stack Developer, Data Scientist and Database Administrator. Maintain and created custom workflows and web apps for the system. Built and maintained Master Data Management System for physician practice. Build and review ML solutions. Created custom built ETL framework.

OCTOBER 2016 – PRESENT

Data Scientist / Digidence: Bethesda, MD

Created machine learning algorithms that monitor and assess patient health based on health records, wearable sensors, and other biological data. Developed and tested patient facing mobile app.

JULY 2016 – OCTOBER 2017

Postdoctoral Fellow / University of Michigan Medical School: Ann Arbor, MI

Created machine learning algorithms that predicted detrimental decline of oncology patients based on biological signals. Helped manage lab's software repositories and project deliverables.

AUGUST 2010 – JUNE 2016

Graduate Student Research Assistant / University of Michigan: Ann Arbor, MI

Utilized physics, advanced mathematics, probability distributions, image processing and machine learning to predict the structure and function of biological macromolecules. Utilized predicted structures along with GO term knowledge graph to predict biological interactions.

AUGUST 2009 – AUGUST 2010

Data Analyst / University of Michigan Medical School: Ann Arbor, MI

Analyzed clinical and financial data. Created comorbidity models that predicted patients' likelihood of survival.

Projects

VuConn: Over the wire virtual connection proxy server to SQL systems
Tacos: Sequence to macromolecular structure prediction server.
SPRING: Prediction of genome wide macromolecular interactions.
AggridFullStack: Full stack framework for developing web apps.

Education

Ph.D., Bioinformatics / University of Michigan: Ann Arbor, MI
B.S. Biochemistry, B.A. Math & Physics / Indiana University: Bloomington, IN