Abhishek Shah

Youngstown, OH 44504 | +1-330-978-8465 | abhi.shah6336@gmail.com | My Portfolio Link

Objective

Competent, dedicated, and detail oriented. Looking for a position where exceptional skills and academic knowledge are leveraged.

Education

Youngstown State University (YSU), Graduate School — **Youngstown, OH**

- ***Master of Science*** in Computing and Information Systems, GPA: 4.00/4.00 — December 2022
- ***Data Analytics Certification*** — May 2022

Youngstown State University (YSU), College of STEM — **Youngstown, OH**

- ***Bachelor of Science*** in Computer Science — December 2020
- Minor: Mathematics GPA: 3.85/4.0

Research & Thesis

Youngstown State University – Youngstown, Ohio — **January 2021 – December 2022**

Drivers' Visual Focus Areas on Complex Road Networks in Strategic Circumstances: An Experimental Analysis

- Developed simulation software for realistic driving experiences and analyzed visual focus of 20+ drivers.
- Created a stochastic simulation that can scale and restructure as per requirements.
- Utilized C# Job System and Burst Compiler to distribute processing across CPU cores in AI Traffic Controller script, resulting in 30% faster simulation times.
- Gathered synthetic data on human gaze patterns to simulate sight perception for neural network training, resulting in an accuracy of 90% on real-world data.

Imputation of Missing Values in Time Series Dataset — **August 2020 – December 2020**

- Applied 12 different machine learning (ML) algorithms using Python, showcasing proficiency in the field.
- Successfully imputed missing data in 7 scenarios, highlighting ability to analyze & recover valuable information in raw datasets.
- Demonstrated strong understanding of imputation techniques and their significance in preprocessing data for ML models.

Projects

Face Mask Detection – Youngstown State University

- Used Keras, TensorFlow, MobileNet, and OpenCV to create a face mask detection program that raises an alarm when a human face is detected without a mask in real-time.
- Employed MobileNet to implement a convolutional neural network for accurate and real-time detection of face masks.
- Demonstrated proficiency in image processing libraries, including OpenCV, to perform object detection & image classification.

Future Sales Prediction – Youngstown State University

- Managed and led a team in the successful implementation of Gradient Boosting algorithm on time-series datasets to accurately predict future sales trends within a tight deadline, achieving top performance in a Kaggle competition.
- Showcased exceptional proficiency in time-series data analysis and prediction by utilizing advanced ML techniques during a competitive Kaggle challenge, leading to a top-performing model with high accuracy.

Organizational Experience

Snapbrillia, Inc. – Web Development Intern – Remote — **April 2022 – September 2022**

- Worked in an agile-based environment, collaborated in daily scrum meetings to report on the advancement of allocated tasks.
- Developed JavaScript, HTML, and CSS components for the b2c website in partnership with the design team and implemented them with logic utilizing the React JS framework.
- Detected and resolved bugs across the b2b/b2c website while managing wait time.
- Conducted unit testing using Jest to ensure all code complied with quality requirements before deploying.

Youngstown State University – Graduate Research Assistant – Youngstown, Ohio — **January 2021 – December 2022**

- Developed ethical driving simulation software utilizing eye-tracking technology to simulate complex scenarios, demonstrating proficiency in software development and ethical research.
- Earned first place in the University of Queensland's Three-Minute Research Thesis competition by presenting innovative research on ethical dilemmas in driving simulations.
- Acquired hands-on experience in software development and ethical dilemmas research, gaining expertise in both fields.

William F. Maag, Jr. Library – Student Assistant – Youngstown, Ohio — **October 2017 – December 2020**

- Effectively managed large databases with diverse information, facilitating smooth communication between multiple organizations and enhancing organizational efficiency.

Technical and Software Skills

C++, C#, Java, Python, JavaScript, R, Marie, HTML, CSS, WordPress, ReactJS, NodeJS, SQL, NumPy, SciPy, Matplotlib, Scikit-learn, Jupyter, Git, GitHub, BitBucket, Unity3D, Blender, Visual Code, Tableau, PowerBI, Click Up, Excel, Latex, Linux

Training and Certifications

Data Analytics (YSU), Cybersecurity Certification (CISCO), Database Offerings, Hadoop Fundamentals, ElastiCache Service Primer, Quantum Ledger Database Service Primer, Neptune Service Primer, Redshift Service Primer (AWS)

Publication

Shah, A. (2022). *Drivers' Visual Focus Areas on Complex Road Networks in Strategic Circumstances: An Experimental Analysis* [Master's thesis, Youngstown State University]. OhioLINK Electronic Theses and Dissertations Center. http://rave.ohiolink.edu/etdc/view?acc_num=ysu1670861339531086