

EXPERIENCE

Research Assistant

Gannon University, Erie PA

Aug 2022– May 2023

- Successfully trained and qualified a reinforcement learning-powered race car for two rounds in the AWS Deep Racer Competition, achieving an impressive time of **2.32 minutes**.
- Mentored and facilitated lab sessions for **10 undergraduate** students, providing effective guidance in the practical application of reinforcement learning techniques.
- Employed the **AWS-Robomaker** simulation environment to refine the Deep Racer model and collaborated with a team to optimize its hyperparameters using Bayesian optimization and grid search techniques, resulting in an impressive improvement of approximately **30%** in lap times and a notable reduction of **10%** in variability.
- Significantly improved the drone's performance and capabilities by utilizing the **Opti-track system** in conjunction with the **CRAZYFLIE drone** to capture highly precise motion data.
- The integration of comprehensive datasets collected through the Opti-Track system resulted in approximately **36%** enhancement in the drone's overall performance.

Global Student Assistant

Gannon University, Erie PA

Oct 2021–May 2023

- Utilizes ImageNow software to scan and file confidential international student documents, ensuring proper organization and security, representing **15%** of the role.
- Demonstrates proficiency in Microsoft Excel (**VLOOKUP, SUMIF, INDEX-MATCH, Pivot chart**) to create and manage spreadsheets, perform data analysis, and generate reports, contributing to **30%** of the role.

Python Developer

Make my clinic Pvt Ltd

Aug 2020 – May 2021

- Design e-commerce platforms for multiple clinic products and services using Python and related frameworks such as **Flask**.
- Collaborated with front-end developers to integrate e-commerce platforms with the clinic's website or mobile app, resulting in seamless integration with an **85%** functionality rate.

EDUCATION

M.S. Computer Information Science-Data Science

Gannon University, PA

GPA: 3.875

May 2023

Coursework: Cloud Computing, Big Data, Data Visualization, Statistical Computing, Data Mining, Text Mining.

Bachelors - Information Technology

Mumbai University, India

GPA: 3.25

July 2020

Coursework: Data Structure and Algorithm, Python, Java, DBMS, PHP, C language, Operating Systems, ASP.NET.

SKILLS

Programming Language: Python, C/C++, SQL, HTML/CSS, JavaScript, ReactJS.

Technologies: Flask, Django, Postman, MongoDB, No SQL, Snowflake, Postgre SQL, Spark, AWS(EC2, S3, Lambda), Kafka.

Visualization: Tableau, Power BI, Advance Excel, PowerPoint, Visio, Power BI, Business Analysis, Qlik Sense, SSRS.

Frameworks: Git, AWS & GCP Services (Cloud Functions, CloudWatch, Lambda, Athena), Agile Methods, Kubernetes.

Libraries: - TensorFlow, Pandas, NumPy, Spark, Pytorch, OpenCV, Keras, Matplotlib, Scikit-learn, Beautiful Soup, Selenium.

PROJECTS

Identification of common defects in modern web browsers

Dec 2022 - ongoing

- Performed web scraping using **Selenium** to collect bug data from repositories of Firefox and Chrome, resulting in a dataset of **6 million** and **8 million Large Datasets** respectively.
- Implemented K-means clustering and TF-IDF techniques to refine the dataset by grouping similar synonyms and removing less important words occurring below **0.2%**, resulting in a more accurate and focused dataset.

Thyroid Detection:- [GitHub Link](#)

Feb 2022 - May 2022

- Developed a scalable end-to-end machine learning pipeline utilizing **clustering** and **classification** techniques to accurately determine compensation for hypothyroidism in patients and the AUC score of **0.9%**.
- Achieved an impressive accuracy of **94.5%**, ensuring reliable and accurate predictions for patient diagnosis.

Wafer Fault Detection:- [GitHub Link](#)

Oct 2021 - Dec 2021

- Developed and deployed a highly accurate predictive system to assess the performance of wafers across multiple sites achieving an impressive **87%** accuracy in identifying damaged wafers, enhancing efficiency, and reducing costs.

Heart Failure (HF) Prediction:- [GitHub Link](#)

Aug 2021 - Sep 2021

- Predicted the outcome of Heart Failure Using Correlations analysis, K-mean, and Principal component analysis (PCA).
- Identify the key feature using machine learning classifiers, a patient's survival can be predicted based on important clinical features and got **88%** accuracy.

CERTIFICATION

[Agile Software Development](#) | [Terraform on Azure](#) | [Google Data Analyst](#) | [Tableau](#) | [Neural Networks & Deep Learning](#)
[Rest API Intermediate](#) | [Postgres SQL](#) | [Hacker Rank SQL](#) | [Hacker Rank Python](#) | [Microsoft Excel](#) | [Microsoft Power BI](#)