Rahul Singh

353 W 9th Street, Erie, PA, 16502

Shape

Description automatically generated with low confidence[singh041@gannon.edu](mailto:singh041@gannon.edu) (551)280-6143  [[GitHub](https://github.com/singhrahulbrijesh)](%20%20%20%20%20%20%20%20GitHub:%20git%20)   [[LinkedIn](https://www.linkedin.com/in/rahul-singh-05/)](%20%20https://bit.ly/3elbgqP)

# Education

## Gannon University Erie, PA

Computer and Information Sciences, DataScience**GPA:** 3.925 2021–2023

Coursework: Cloud Computing, Data-Centric Concept, Big Data, Data Visualization, Statistical Computing, Requirement Project Management, Data Mining, Text Mining, Scholarship Seminar.

## Mumbai University Mumbai, India

Information Technology**GPA:** 3.25 2016–2019

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

**Activities:** Kaggle Scholar, Research on New and Upcoming technologies in Data Science, Organizer for cultural nights at university, Student Counselor for International admissions, and Machine Learning Enthusiast.

# Experience

## Gannon University Erie, PA

**Biomedical Lab Assistant**Aug 2022–Present

* AWS Deep Racer (On-Going)
* Working on Deep Racer by utilizing Reinforcement Learning and appropriately adjusting the parameters to achieve the optimum outcome.
* The car demonstrates how a model trained in a simulated environment can be transferred to the real world by using cameras to view the track and a reinforcement model to control the throttle and steering.
* Drone Programming using Convolutional Neural Networks.
* Conducted hand gesture detection that recognizes hands and executes the user's command.
* Conducted facial detection by placing a marker on the user's face, which helped the drone find and follow the User.

**Global Student Assistant**Oct 2021–Present

* + Communicate with potential global Gannon students to guide them and update them on their admission.
  + Utilize Perceptive Content software to check applicants’ admission status and communicate accordingly.

# Projects

**Thyroid Detection.** May 2022

* Developed and Developed a Scalable End to End project Machine Learning Pipeline using Machine Learning Algorithms.
* The project aims to create a prediction system that can determine whether a patient has a high or low risk of developing thyroid disease.
* Major disorders may develop in either situation when the thyroid gland functions either above or below normal levels (hyperthyroidism with high hormone levels versus hypothyroidism with low hormone levels).
* **Tech Stack**: Stream-lit, Random Forest, Scikit-Learn, Docker, CircleCi, mlops using MLflow, etc.

**Wafer Fault Detection.** Jan 2022

* The goal of the project is to create a predictive system that can tell whether a wafer deployed across numerous sites is performing properly or is damaged.
* A wafer is a thin slice of semiconductor material used in the manufacture of integrated circuits and solar cells. In the existing situation, if a wafer is damaged, an individual must inspect every wafer available to identify the damaged one.
* The model seeks to identify the damaged wafer, avoiding inspection of all wafers present.
* **Tech Stack**: Python, Flask, XG Boost, Decision Tree, KNN, K-Means, Mongo DB, MLflow, etc.

## Heart Failure (HF) Prediction using Machine learning. Sep 2021

* Predict 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**.
* **Tech Stack**: Python, Flask, Heroku, SQLLITE.

## Web Crawlers for Image Data Sentiment Analysis and Product review Sentiment Analysis. Aug 2021

* Developed web scraper using Python to filter out the reviews from E-commerce sites like Flipkart.
* Performed methods such as post, get, filter out the reviews from the site, and successfully test and deploy it on a Cloud Platform like Heroku.
* **Tech Stack**: Python, Flask, Heroku, SQLLITE.

**Skills**

**Expert**: Python, NumPy, Pandas, R, MySQL, SQL, Latex, Git/Terminal, Data Analysis/Visualization, Stream-lit, Keras, OpenCV, Matplotlib, Scikit-learn, Seaborn, NLTK, SciPy, Power BI, Jupyter, AWS GCP Services

**Proficient:** C, SQL, HTML (Liquid), CSS, Java, JavaScript (React), Azure/AWS, WordPress, Git, Django, Hadoop,

Flask, PyTorch, Amazon Lex, AWS SageMaker, AWS DeepLens .

**Novice:** Linux, React JS, RASA NLU, ASP.NET, Flutter.

**Awards**

* [Hacker Rank Python Gold](https://www.hackerrank.com/singhrahulbrije1): 5 Star Problem Solver Aug 2021 – Present
* [Hacker Rank SQL Gold](https://www.hackerrank.com/singhrahulbrije1): 5-Star Problem Solver Aug 2021 – Present