Rahul Singh

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# � Education

## Gannon University Erie, PA

*Computer and Information Sciences, Data Science* **GPA:** 3.90 2021–2023

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

## 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.
* Drone Programming using Convolutional Neural Network.
* 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

* The project aims to create a prediction system that can determine whether a patient has a high or low risk of developing thyroid disease.
* The thyroid is a neck-based endocrine gland that produces hormones (FT3 and FT4) that are then released into the bloodstream.
* 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).
* Treatment for thyroid disorders is crucial for this reason.
* **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, 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, Flask, PyTorch, Amazon Lex.

� **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