Akanksh Gatla

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Education

State University of New York, Buffalo   **August 2022 – December 2023**
Master of Science in Computer Science   *Buffalo, New York*

Technical Skills

Languages: **C/C++, Python, R, Javascript, HTML, CSS, SQL, Latex, Verilog**
Libraries : C++ STL, Python Libraries
Developer Tools: Visual Code Studio, Jupyter, Github
Frameworks: **Flask, Django**
Cloud/Databases: **MongoDb**, Relational Database(mySql), **PostgreSQL**, Amazon Web Services **EC2**
Data visualization: **Tableau**, Power BI
Areas of Interest: Data Science , Cloud Computing , Virtualization
Soft Skills: Problem Solving, Self-learning, Presentation, Adaptability, **Motivating**

Projects

Retrieval Based Chatbot | *Python, Flask, VM instance(GCP), API based Scraping*   **September 2023**
- Gathered data from the **Wikipedia open-source** platform, curating a dataset to train and fine-tune **chatbot's** responses for specific topics of interest.
- Programmed chatbot to provide informative and coherent answers to a wide range of user queries, from general inquiries to specialized topics sourced from old discussions.
- Executed robust solutions to address various challenges in chatbot development, including **handling user input**, generating responses, and refining model's performance.

Global Super Store - CRUD APP | *Python, PostgreSQL, Triggers, Functions, Views, HTML, CSS*   **April 2023**
- Developed a robust e-commerce platform with real-time data tracking, automated cart updates, and secure payment processing, catering to a range of businesses, from Walmart to Retailers.
- Performed complex SQL queries, triggers, functions, and views, in **PostgreSQL** for efficient data management.
- Created a user-friendly web interface leveraging **HTML** and **CSS**, providing intuitive to visualize and analyze data.

Computer Architecture 8-bit Processor | *Verilog, FPGA-board*   **March 2023**
- Successfully designed and implemented an 8-bit processor using **Verilog** and **Xilinx Vivado**, which included simulation and synthesis of the Verilog code and testing of the resulting **FPGA** hardware.
- On Top was assigned to handle other students and guide. Demonstrated programming by independently completing a complex project utilizing tools such as **Vivado** and Verilog.

Health Care Application | *Python, Flask, AWS EC2, Tableau, HTML, CSS, JavaScript, Machine Learning*   **April 2022**
- Accomplished **Random Forest Classifier** for disease prediction, achieving [accuracy/result metrics].
- Developed backend deploying Flask, creating **API** for data processing. Designed an interactive web interface with HTML, CSS, and JavaScript.
- Hosted application on **AWS EC2** instance operating **Putty**, with a **Tableau** dashboard for patient statistics integration.
- **Guided** a team of **Five** to successful completion of a group project.

Certification

Data Analysis with Python: Zero to Pandas   **Certificate Link: MFQTSMBTHA**
Jovian   *November 2023*
- Proficient in reading/writing CSV data, querying, filtering, sorting data frames, grouping/merging/aggregating data.
- Real-world project demonstrating ability to parse, clean, analyze data using Numpy and Pandas, and create visualizations with Matplotlib and Seaborn.

Introduction to Data Science   **Certificate Link: bywxlo1yqg**
Analytics Vidya   *May 2020*
- Hands-on experience with Jupyter for data extraction, data cleaning, and building machine learning models.
- Executed linear regression, logistic regression, decision trees, and random forests on multiple real-world projects like NYC taxi trip duration prediction.

Research Publications

Predictions And Analytics In Healthcare: Advancements In Machine Learning **Certificate Link: V10I734**
International Research Journal of Engineering and Technology   *July 2023*
- Collected and analyzed data using Random Forest machine learning model to predict different types of diseases.
- Developed and trained a machine learning algorithm to predict Breast Cancer, Heart, Liver, Kidney Problems.
- Evaluated the accuracy of the prediction algorithm.
- Presented the results of the research at a LPU conference.