

AKANKSH GATLA

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Education

State University of New York, Buffalo

Master of Science in Computer Science

August 2022 – December 2023

Buffalo, New York

Technical Skills

Languages: C/C++, Python, R, Javascript, HTML, CSS, SQL, Latex, Verilog

Developer Tools: Visual Code Studio, Jupyter, Github

Frameworks: Flask, Django

Cloud/Databases: MongoDB, Relational Database(mysql), PostgreSQL, AWS EC2

Data visualization: Tableau, Power BI

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 upto 94% and provide **chatbot's** responses for specific topics of interest.
- Programmed chatbot to provide informative and coherent answers with Analytical streaming to a wide range of user queries, from general inquiries to specialized topics.
- Executed chit-chat bot 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 to compute within 3 seconds.
- 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 and guide other students. 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 89% in F1 score.
- 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.
- Presented the results of the research at a LPU conference.