AKSHATA SINGH

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EDUCATION

- **University at Buffalo (SUNY Buffalo)**   Buffalo, NY
  Masters of Science in Computer Science   *Dec 2022*
  Coursework: Algorithms, Data Models and Query Language, Operating Systems, Distributed System
- **A. P. Shah Institute Of Technology**   Mumbai, India
  Bachelor of Engineering in Information Technology: (Rank 1/80) CGPA: 9.4/10   *Aug 2017 - June 2021*

TECHNICAL SKILLS

- **Programming Languages:** HTML, CSS, PHP, JavaScript, TypeScript, Python, R, Solidity
- **Cloud and Databases:** MySQL, PostgreSQL, AWS, MongoDB, GraphQL
- **Environment and Frameworks:** Bootstrap, Node.js, Jest, MUI
- **Platforms and Tools:** MS-Office, VS Code, Git, Rasa, Postman, Docker

EXPERIENCE

- **Software Engineer Intern -** Green Action Studio, NewYork   *Jun 2022 - Nov 2022*

  - Full-stack application development using JS libraries and frameworks.
  - Creating highly-responsive user interface components using React concepts.
  - Writing queries to perform CRUD operations on database.
  - Implementing REST APIs using AWS Lambda functions.
  - Integrating Payment Gateway for automatic billing.
  - Continuous deployment and integration for production website using AWS CDK.
  - Code Testing and Maintenance.

PROJECTS

- **Database - Diabetes Card** (PostgreSQL, pgAdmin)   *Mar 2022 - May 2022*
  Using real diabetic dataset, designed a database schema then created ER diagram and relational schema for that database. Later performed some DDL and DML commands as well as Advanced SQL queries such as Indexing, creating Trigger and normalization on the database. Improved the performance of the SQL queries through the analysis of execution time.

- **Machine Learning** (Python, TensorFlow, pandas, Jupyter Notebook)   *Oct 2021 - Dec 2021*
  - Using Pima Indians Diabetes Dataset, classified whether a patient has diabetes (class 1) or not (class 0) using Logistic Regression and Neural Network as the classifier.
  - Using Cifar10 dataset, performed k-means clustering from scratch on a representation generated by the Auto-Encoder.
  - Implemented Q-Learning algorithm from scratch for Reinforcement Learning to train an agent to learn the trends in stock price and then perform a series of trades.

- **Blockchain - Feedback Reward Token** (Solidity, HTML, CSS, NodeJS)   *Oct 2021 - Dec 2021*
  Created a customized Token on Blockchain using ERC20 standard smart contract. The project aimed at improving the campus dining feedback system by rewarding students with tokens as reward for providing the dining service feedback.

- **IoT Project (**HTML, CSS, JavaScript, PHP, MySQL, Rasa, AWS, Node-RED, Tinkercad)   *Oct 2020 - Apr 2021*
  Developed an IoT based remote Health care system with a website for doctors and patients along with an AI Chatbot for self-diagnosis of mild symptoms and an EHR (Electronic Health Record) maintained in AWS Cloud.

- **Job Portal website** (HTML, CSS, PHP, MySQL, JavaScript, Heroku)   *Dec 2019*
  Developed and hosted a user-friendly Job Portal website to help in online search for job seekers and to facilitate the company to search for the best candidate available.

EXTRACURRICULUM

- Participated in Major League Hacking 2022 and won the price for the Best UI/UX Usability.
- Volunteered to take lecture notes for a student with disability during Fall 2021 semester at University at Buffalo.
- Designing wireframes, prototypes, certificates and posters using Figma, Adobe XD, Photoshop, CorelDraw and Canva.