DARSHAN PATEL

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Skills Summary

- **Programming Languages:** Proficient in Python, SQL, C, C++, and JAVA, with a focus on application development in Web Development, Machine Learning, and Data Analytics.

- **Web Technologies:** Experienced in HTML, CSS, React, Figma, Wireframe, JavaScript, NodeJS, and Flask for building responsive and dynamic web applications.

- **Database Management:** Skilled in working with databases like MySQL and MongoDB for effective data management and retrieval.

- **Development Tools:** Proficient in using development tools such as Vs Code, Visual Studio, Anaconda, Sublime Text, Eclipse, Google Colab, and GitHub for enhanced development efficiency.

- **Data Analysis & Visualization:** Capable of using tools like Tableau and Matplotlib for data analysis and presenting insights effectively.

- **Cloud Integration:** Experienced in deploying and managing applications on Azure Cloud, including services like Azure Functions, Logic Apps, and Service Bus.

- **Machine Learning:** Proficient in using machine learning frameworks and libraries like Keras-TensorFlow, Scikit-Learn, PyTorch, NumPy, and OpenCV for developing and deploying machine learning models.

- **Real-Time Communication:** Skilled in using the Socket.io library for building real-time communication channels in web applications.

- **Version Control:** Experienced in using Git for version control and collaborative software development

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Education

Master Of Computer Science, -- *The University of Texas, Arlington, TX*   *2021-2023 May*

Relevant Coursework: Web data Management, Bioinformatics, Data Mining, Design and analysis of Algorithms, Computer Networks, Data Analysis, and Modeling Techniques, Cloud

Computing & Big Data, Software Testing, and Artificial Intelligence, Design, Modeling Techniques, Software Management, maintenance, and Quality Engineering.

Bachelor of Engineering in Information Technology, -- _Savitribai Phule Pune University, Pune, India_.

Relevant Coursework: Database Systems, Machine Learning, Python Programming, Object-Oriented Programming, Cloud Computing, and its Application, Internet of Things, Business Analytics.

Experience

Alita Infotech

Software Developer Intern -   _Feb 2019-July 2019_

- Redesigned and updated a complete web application that is used to track the company's products.
- Integrated features like the stock of the product available in the warehouse, orders placed, orders delivered, Receipt generation, and Payment integration. This was developed using Java, HTML, CSS, Bootstrap and MySQL

Alita Infotech

Jr. Software Developer   _Aug 2019-April 2021_

- Experience in crafting dynamic and visually appealing web pages using the latest technologies, including HTML5, CSS3, and JavaScript.
- Actively participated in the development of a single-page application (SPA) using the React framework, contributing to a modern and responsive user interface.
- Worked extensively with ReactJS, focusing on optimizing performance through the efficient use of the Virtual DOM.
- Successfully implemented complex views by creating and integrating components, including custom HTML tags for modular and reusable code.
- Played a crucial role in the development of the checkout page within the Shop&Go Application, leveraging React to enhance user experience and functionality.
- Designed and implemented a responsive user interface, optimizing the application's performance and appearance across various devices, including desktops, mobile phones, and tablets.

Personal And Academic Projects

CIFAR-10 image Classifier | [Python] [CNN] [Pytorch] [Seaborn] [matplotlib]

- Trained the CNN model with a total of 60,000 images and tested it on 10,000 images.
- Achieved an accuracy of 70% after training the model for 50 epochs.
- Used Seaborn to visualize the confusion matrix and evaluate the model's performance on different classes.

Island Management System | [React] [NodeJS] [HTML] [CSS] [PHP] [Bootstrap] [MySQL]

- Developed the web application with a team of 5 developers in a span of 6 months.
- Integrated Bootstrap to ensure the application is mobile-responsive and accessible on different devices.
- Implemented a real-time chat feature using Socket.io that allowed residents to communicate with the administration in under 5 seconds.

Brain Tumor Detection using CNN | [Python] [CNN] [Matplotlib] [Keras] [Deep Learning]

- Trained the CNN model with a total of 3,000 MRI images and tested it on 600 images.
- Achieved an accuracy of 89% after training the model for 50 epochs.
- Used Matplotlib to visualize the model's training and validation accuracy and loss over time.

Working on Big Data Sets and Creating Web Application Using Azure Cloud Service | [Cloud Service] [Flask] [Matplotlib] [MySQL] [Python]

- Deployed the web application on Azure Cloud Service and set up a virtual machine with a 4-core processor and 8 GB of memory.
- Used Flask to build the backend API and MySQL as the database to store and retrieve earthquake data.
- Visualized the earthquake data using Matplotlib and allowed users to filter and search for specific data points.
- Developed a web interface using HTML, CSS, and JavaScript to allow users to search and analyze text in books.
- Implemented a search feature that enables users to search for specific terms in a book and highlight them in the text.
- Used data visualization tools such as D3.js to provide users with graphical representations of the search results.