Bhavik Bhagat

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Summary of Qualifications

- Aspiring Software Developer and Scribe with expertise in Agile methodology
- Proficient in handling multiple data sets and preparing data pipelines for analysis and modeling
- Skilled Scrum Master capable of leading teams in fast-paced environments
- Excellent active listening and problem-solving skills with attention to detail
- Passionate about Artificial Intelligence & Machine Learning with a strong foundation in Mathematics
- Multi-lingual: Fluent in English, Gujarati (Native), Hindi

Technical Skills

Languages: *Python, JavaScript, C, C++, Java, PHP, HTML, CSS, SQL, R, Kotlin*
Frameworks/Libraries: *Flask, Django, ReactJS, ChakraUI, MaterialUI, jQuery, Bootstrap, Numpy, Pandas, Matplotlib, Seaborn, Plotly, BeautifulSoup, Scikit-Learn, Keras, TensorFlow, NTLK, PySwarm, PyGad, PyGame, ggplot*
Technologies: *Git, AWS (EC2, S3, RDS), GCP (GCE, Firebase, Firestore), Docker, PowerShell, MySQL, PostgreSQL, Apache*
Applications: *Advanced Excel, Tableau, LaTeX, VMware, TeamViewer, Zendesk, GitHub, GitLab, Bitbucket*
Project Management: *Agile, Waterfall, Scrum, Jira, Confluence, Trello*

Projects

Portfolio | https://bhavikbhagatnetlify.app
- Developed a professional portfolio website showcasing diverse skills and work experiences
- Utilized the ChakraUI component library to demonstrate proficiency in ReactJS
- Created and validated the form using Formik and used emailJS for email functionality
- Integrated Firestore database for NoSQL data storage and Google Cloud Storage for file storage
- Containerized the app using Docker, created a Docker image, and hosted it on Netlify

Halifax-Canoe-Kayaking | http://35.182.245.62/ | https://github.com/bhavik-knight/hck_dns_sfha
- Created a website for booking canoe and kayaking adventures
- Designed a responsive UI using HTML5, CSS3, Bootstrap, JavaScript, and jQuery
- Developed the backend and implemented server-side form validation using PHP
- Utilized Git and GitHub for version control throughout the project
- Deployed the project on AWS EC2 using a LAMP Stack and RDS for the MySQL database
- Containerized multiple components using Docker-compose and deployed images on DockerHub

Nish-Foody | https://bitbucket.org/csci-485/nish-foody/src/main/
- Developed a fully-functional website for food ordering/offering for the Antigonish community
- Worked as a full-stack developer in a 5-member team for the final year project
- Conducted requirement analysis through surveys and led documentation efforts
- Designed the menu page using HTML5, CSS3, and Bootstrap for the UI
- Utilized Django framework for serving REST APIs and connecting to PostgreSQL database
- Followed Agile methodology with tools like JIRA and Confluence for project management

Projects

Crime Analysis | A comprehensive study of factors influencing crime in the USA
- Conducted a comprehensive study of factors influencing crime in the USA
- Gathered USA data from Kaggle and FBI crime data explorer
- Performed data wrangling and ETL to convert raw data into valuable information
- Generated high-quality and meaningful plots using the ggplot2 library
- Conducted exploratory data analysis to find correlations between crime rate and factors like unemployment and education
- Developed models to understand the evolution of different types of crime over decades in the USA

Multi-Class Image Classification | Deep learning | https://github.com/bhavik-knight/444/tree/master/project
- Utilized the Keras API for deep learning using Convolutional Neural Networks (CNN)
- Trained the model on the Intel Image dataset (25,000 Images | 6 Categories)
- Implemented the LeNet architecture by Yann LeCun as the initial model
- Customized the LeNet architecture by adding batch normalization and dropping layers to mitigate overfitting
- Achieved approximately 80% accuracy on the test data by manual parameter tuning
- Incorporated ROC plots to evaluate the model's performance using the Matplotlib library

Education

Post Baccalaureate Diploma in Artificial Intelligence (GPA: 4.0)   **Sep 2020 - May 2022**
St. Francis Xavier University | Antigonish, NS

Certifications

Career Essentials in Software Development
Microsoft │ Online, LinkedIn

Google IT Support Professional - Certificate
NPower Canada │ Halifax, Nova Scotia

Web Development - Certificate
Skills for Hire, Digital Nova Scotia | Halifax, NS

CS50x Introduction to Computer Science - Certificate
Harvardx | Online, EdX

Work Experience

Customer Service Associate   **Oct 2022 - Feb 2023**
Ttec | Halifax, Nova Scotia
- Enhanced customer engagement by effectively handling queries and minimizing wait times during peak hours
- Provided excellent customer service by identifying individual problems and delivering solutions via email
- Created custom macros using the Zendesk environment for efficient ticket handling and service delivery

Volunteer Experience

Community Teaching Assistant   **Jan 2020 - Mar 2020**
MITx, EdX | Online
- Assisted over 100 online learners in expanding their knowledge and understanding of challenging math and science problems
- Introduced alternative solution methods to enhance course comprehension