Bhavik Bhagat

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Summary of Qualifications

- Experience working as a *Software Developer* and a *Scribe* for projects developed using Agile methodology
- Practical knowledge of handling multiple data sets, preparing data pipelines using ETL for Analysis and Modeling
- Proven experience as a *Scrum master*, leading a small team while working in a fast-paced environment
- Recognized for expertise in active listening and understanding the needs of a diverse clientele
- Excellent problem-solving and analysis skills with attention to detail to provide high-quality solutions
- Passionate about Artificial Intelligence & Machine Learning, with a solid 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

Halifax-Canoe-Kayaking | http://35.182.245.62/ | https://github.com/bhavik-knight/hck_dns_sfha

- Created the website as a project for booking the adventure for Canoe and Kayaking from the available trips
- Designed the responsive UI using HTML5, CSS3, Bootstrap, JavaScript, and jQuery from the wireframe design
- Developed the backend and validated the form submitted on the server side using PHP
- Handled the version control using Git and GitHub for all 3-phases of the project
- Launched on the AWS as Iaas, using EC2, configured LAMP Stack and RDS for the MySQL relational database
- Integrated multiple Docker-container seamlessly using docker-compose, deployed the project on the DockerHub

Nish-Foody | https://bitbucket.org/csci-485/nish-foody/src/main/

- Developed a fully-functional website for food ordering/offering for the people of Antigonish
- Worked as a full-stack developer in SDLC as a 5-member team to create the website as the final year project
- Surveyed people from different backgrounds for the requirement analysis; spearheaded the documentation
- Designed the menu page using HTML5, CSS3, and Bootstrap for the UI and the cart for orders using JS/jQuery
- Adopted the Django framework serving REST API, connected to the PostgreSQL database
- Followed the Agile methodology with tools like JIRA and Confluence pages for the documentation

Hotel Management | A Relational Database for the Hotel Room Reservation

- Developed the relational database as a 4-member team for the Hotel Management
- Actively participated in creating the ERD diagram, designing and then normalizing the database
- Performed CRUD operations maintaining the constraints placed on the 4/15 tables using SQL
- Prepared meaningful Views and useful queries on the database by applying joins on the tables
- Deployed the database on the university's Oracle Server hosted by the professor

Projects

Crime Analysis | A comprehensive study of factors influencing crime in the USA

- *Data Collection*: The Analysis of the USA data obtained from the Kaggle and FBI crime data explorer
- *Data Wrangling:* Split and merged datasets performing ETL to convert the raw data into valuable information
- *Visualization:* Generated high-quality and meaningful plots by executing functions from the ggplot2 library
- *Exploratory Data Analysis:* To find a correlation between Crime rate and two factors: Unemployment & Education
- *Modeling:* To understand how different types of crime are evolving over the 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 CNN on Intel Image data set (25,000 Images | 6 Categories)
- Adopted the *LeNet* by Yann LeCun resulted in approx 60% accuracy on the test data after initial training
- Customized the LeNet by adding layers for the batch normalizing and dropping some layers to mitigate overfitting
- *Achieved approx. 80% accuracy* on the test data for 100 epochs by manually tuning the parameters
- Incorporated the ROC plots for training/testing - accuracy of the model 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

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

600x Computational Thinking using Python - Certificate
MITx | Online, EdX

Work Experience

Customer Service Associate **Oct 2022 - Feb 2023**
Ttec | Halifax, Nova Scotia

- Increased customer engagement by effectively handling queries and utilizing resources to curb wait times during peak hours, contributing to maximizing the turnover of the company
- Delivered excellent customer service by identifying individual problems and providing solutions over email, resulting in a significant improvement in the satisfaction of customers
- Created quality custom macros for various customer inquiries using the Zendesk environment for the ticketing system, resulting in high productivity and a reduction in the time of service delivery

Volunteer Experience

Community Teaching Assistant **Jan 2020 - Mar 2020**
MITx, EdX | Online

- Helped 100+ online learners expand their knowledge and reduce course confusion, introducing alternative solution methods to challenging math and science problems