Bhawana Purandare

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TECHNICAL PROFICIENCIES

Languages and Technologies • Java • Python • C • C++ • MySQL • MongoDB • JavaScript • AWS • GitHub

Web and Front-end • Ruby on Rails • HTML5 • CSS • JQuery • Bootstrap • REST • AJAX

• Data Structures and Algorithms • Object-Oriented Methodologies • Agile Development • SDLC • MVC

EDUCATION

Master's in Computer Science, California State Polytechnic University Pomona, GPA – 3.7/4, May 2020

Bachelor's in Computer Engineering, Pune University India, GPA - 3.1/4, May 2016

TECHNICAL PROJECTS

Machine Learning – Boston Dataset, Facial Expression Recognition analysis (Kaggle competition) - 2019

• Performed linear regression – gradient descent, stochastic gradient descent algorithms to build a machine learning model from scratch, using **Python, Numpy, Pandas**, achieving an accuracy of 75% on testing dataset

• Built a convolutional neural network model for facial expression recognition using **Python, Tensorflow, Keras**, Numpy, Pandas, to achieve an accuracy of 83% on the testing data in an online Kaggle competition

Healthcare Scheduler for patients and doctors - 2018

• Developed a patient appointment scheduler application with appointment notifications functionality using Java dynamic web application framework with technologies such as **Java, React, MySQL, Spring boot**

• Deployed the application using **Amazon EC2** instance

Securing Personalized Web Search - 2016

• Utilized a combination of data mining techniques and cyber security techniques to protect the privacy of the users at the server side in cases of any 'insider' or 'man-in-the-middle' attacks to provide 100% online security

• Developed the application using technologies such as **Java, Java Swing, Servlet, MySQL**

• Used the hashing algorithm for encrypting user's search history as well as his identity

• Developed an interactive user interface with Java Swing framework

Digital Image Processing Application - 2019

• Developed a photoshop akin tool to apply effects and filters like Nearest Neighbor, Spatial filtering, restoration on images utilizing various image processing algorithms, using technologies such as **Java, Java Swing**

PROFESSIONAL EXPERIENCE

Web Developer, Anulom Technologies India, 2017 – 2018

• Developed frontend functionalities for appointment scheduler and task manager in the web application using **Ruby on Rails** framework and frontend development tools such as **HTML, JavaScript, JQuery**

• Implemented a comment and service request mechanism for clients as well as the company staff to reduce significant amount of work hours of customers, employees, and business partners

• Performed regular testing, deployment, and bug fix in an agile development environment

• Performed database management using **MySQL,** and version control with **SVN**

CERTIFICATIONS

• JavaScript Essential Training • Product Management: Building a Product Roadmap (LinkedIn Learning)

• Neural Networks and Convolutional Neural Networks Essential Training • Machine Learning and AI Foundations: Recommendations (LinkedIn Learning)

• C Programming (Seed Infotech India) • Core Java Programming (Bitcode Technologies Private Limited)