ABHILEKH CHAUDHARI

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OBJECTIVE

Seeking a software development internship or cooperative education experience using strong programming skills in Java, Python, JavaScript, AngularJS. **Available: Jan 2021 – August 2021.**

EDUCATION

Rochester Institute of Technology — Rochester, NY, USA
Master of Science, Computer Science. — Expected Dec 2021

M.I.T. College of Engineering — Pune, MH, India
Bachelor of Engineering, Information Technology. — June 2017

SKILLS

Languages: Java, Python, MATLAB, SQL, C.
Web Technologies: AngularJS, JavaScript, Bootstrap, HTML 5 & CSS.
Database: MySQL, PostgreSQL, MongoDB.
DevOps: Jenkins, Git
Quality Assurance Tools: Agile Central, HP-ALM.

EXPERIENCE

Application Development Analyst — Sept 2017–June 2019
Accenture — Mumbai, India

- Analyzed the requirements with business analysts, discussed the design wireframes with UX designers and estimated delivery time for upcoming features to project owners.
- Developed and tested features of cross-platform based hybrid mobile application for a major US-based telecom company.
- Coordinated with 10-15 separate teams of 8-10 individuals working in parallel in the Product-Feature Development Team, Production Support Team, to understand developed features.
- Resolved major defects ranging through multiple layers and improved the overall code quality by 20% using SonarQube parameters and optimized code.
- Acted within a cross-functional, scrum-based team focused on agile and continuous delivery.

Languages: AngularJS, Java, HTML & CSS.

PROJECTS

Single Image Super Resolution using Convolutional Neural Networks:

- Built software to upgrade images with low resolution to images with high resolution using CNN.
- Achieved Peak Signal to Noise Ratio (PSNR) value of 22 on BSD300 dataset using Pytorch library, Python, MATLAB.

Language classifier Using Decision Trees and Adaboost:

- Built a framework that uses Python machine learning algorithms to decide the language of a sentence to be English or Dutch.
- Generated 10 features from a dataset of 10000 short sentences for classification of sentences as English or Dutch.
- Compared accuracy of Decision Tree classifier and Adaboost, achieved highest accuracy of 95% for Adaboost.

Chess Tutor System Using Artificial Intelligence:

- Developed Chess desktop application for beginner players to play against AI.
- Added feature allowing players to restart same game after losing, from the worst move made by player on the board.
- Implemented algorithms like Min-max Algorithm, Alpha-beta Pruning in Java to generate and filter moves for CPU to make.

Car Rental System:

- Developed desktop application for agency owners to manage database of rented/available cars, drivers, and customers.
- Designed UI using Java Swing and used MongoDB for database.

PUBLICATIONS

Identification of Human Characteristics through Speech using Machine Learning Approach (IEEE):

- Collected 250 original speech samples of different age and gender groups to train different machine learning models such as KNN, SVM, and decision trees.
- Created Python-based desktop application to predict test speech sample's age and gender.
- Analyzed and developed feature to compare the accuracy of different learning models for same training and test data, achieved highest accuracy of 95% for decision trees.