SHIVANI CHAVAN

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EDUCATION

Pace University, Seidenberg School of Computer Science and Information Systems　　　　　　**New York, NY**
Master of Science (M.S.) in Computer Science | **Concentration:** Software Development | **GPA:** 3.73　　　　May 2024

Savitribai Phule Pune University, Institute of Information Technology　　　　　　**Maharashtra, India**
Bachelor of Computer Engineering (B.Eng.) | **GPA:** 7.77/10　　　　June 2020

RELEVANT COURSEWORK

Algorithm & Computing Theory | Deep Learning | Python Programming | Parallel & Distribution Computing | Internet Computing |

Mobile Web Content & Development | Project Management | Computer Systems & Concepts | Data Mining

TECHNICAL SKILLS

Programming Languages: Java, Python, C, C++, JavaScript, HTML and CSS
Frameworks: React, React Native, Bootstrap, Next.js, Node.js,
Database Management: MySQL, Microsoft SQL, Mongo DB, Maria DB, Oracle, Apache
Cloud Architecture: Amazon Web Services cloud practitioner, REST API
Software/Tools: Visual Studio, IntelliJ, Android Studio, Xcode, Docker
Web Technologies: jQuery, AJAX, XML, JSON, Postman
Machine Learning Algorithms: Linear Regression (Supervised Learning/Regression), Logistic Regression, Decision Tree (Supervised Learning), Bootstrap Aggregation (Random Forest, Bagging), Nearest Neighbours, Time Series Algorithm

ACADEMIC PROJECTS

Stock Prediction and Forecast using Machine learning and python　　　　　　December 2022
- With an accuracy of 92%, developed a model to predict stock prices using statistical analysis, data mining, and artificial intelligence algorithms.
- To analyze and interpret large volumes of stock data, advanced data-driven methods such as linear regression, decision trees, and Scikit-learn used. Optimize algorithm parameters and hyper-parameters to improve prediction accuracy.

RESTful Service Using Docker　　　　　　May 2022
- Implemented website connections using Docker, allowing website to connect with server & allowing users to quickly access website information.
- Built web application using Ionic to code frontend & React to host, connecting with Docker using JavaScript, hosting through Pace web-page server.

VIRTUAL WORK EXPERIENCE

Accenture, Developer Virtual Experience Program, The Forage　　　　　　February 2023
- AWS services like EC2, S3, Cloud Watch, and IAM have been utilized to create a safe, scaled, and efficient cloud architecture for a health care service center.
- Retrieve the desired record set, and worked on a binary search algorithm.
- NIST cyber security assessment to determine current security maturity and potential vulnerabilities. AWS Key Management Service used to implement data security and privacy measures.

HACKATHONS

PACE 2022 Hackathon 3rd Runner up (32 Talented Team)　　　　　　November 2022
- Developed machine learning model in team of four using Dataiku platform to predict appealing characteristics of chocolate, conducting exploratory data analysis & visualizing to identify most important factors for consumers.
- Implemented Machine Learning Algorithms including Random Forest, Gradient Boost, & Regression, identifying Random Forest as most optimal with lowest RMSE of 0.325.

EXPERIENCE

Indian Oil Corporation, LTD　　　　　　January 2019
- Gained mentorship in field of networking infrastructure from COO, developing skills in server connectivity (WAN, LAN, MAN) & building websites using HTML & CSS.
- Hosted the React / Next.js front end and Node.js backend API in single instance using AWS Elastic Compute Cloud (EC2)
- Realized custom rules / policies for domain management using AWS Route 53 and a secure authentication system using JWT

Virtusky IT Private, LTD　　　　　　May 2018
- Built a highly scalable MERN stack web application for a local EduTech client with Reach & Next.js for frontend
- Created web-page using HTML, CSS, & Bootstrap to develop frontend design & Python & JavaScript to code, implementing blockchain algorithms to identify data manipulation.
- Collaborated in group of three to develop blockchain website using HTML, CSS, & Bootstrap to develop frontend design, providing agricultural laborers with industry & market prices.