Aashna Shroff

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Education

Syracuse University
Master of Science in Computer Science; GPA: 3.7 *December 2023*

University of Mumbai
Bachelor's of Engineering in Computer Science; GPA: 8.95/10.0 *June 2021*

Experience

Full Stack Developer Intern | Edhola EduSolutions, Mumbai, India. June 2021 – January 2022

- Developed multiple customized websites using HTML, CSS, JavaScript, and **React** for the front-end, **Node.js** and Express.js for the back-end, & **MongoDB** for efficient data management resulting in improved client satisfaction.
- Increased website traffic by 30 % and achieved a 20 % boost in customer conversion rates through maintenance and updates, leading to higher purchasing engagement.

Data Science Intern | Tech Mahindra, Mumbai, India. December 2019 – March 2020

- Developed a client-specific project using **Scikit-learn, Spark, MongoDB, AWS, Kafka, and Flask.**
- Devised a comprehensive data processing pipeline to handle large-scale datasets in Spark. Then, designed a web application using Flask to visualise and present the model's predictions in a user-friendly manner.
- Successfully deployed the prediction model to a production environment, integrating Kafka and Flask technologies for real-time predictions. Continuously improved the prediction model by incorporating new features, refining algorithms, and optimising performance to meet the client's evolving needs.

Projects

Exploration of Andaman and Nicobar Islands through Virtual Reality | *Unreal, Blender*

- Developed a unique Virtual Reality App using **Unreal Engine** and **Blender** to showcase an immersive experience of the Andaman and Nicobar Islands in India, featuring over 5 immersive VR scenes and interactive elements.
- Attained 90% user satisfaction, with many users praising the immersive experience provided by our app. Showcased our project's excellence by representing our college in the **Smart India Hackathon National Finale 2020.**

Flight Delay Forecasting | *Python, Machine Learning, Data Preprocessing, API Calls, Feature Engineering*

- Developed a project to predict delay of United Airlines flights to Syracuse, using data from BTS and Weatherbit.
- Performed data preprocessing, feature engineering, and dimensionality reduction techniques. Employed different machine learning models including **Logistic Regression, Random Forest Classifier, XGBoost Classifier, Gradient Boosting Classifier** for prediction.

Biometric-Based Continuous User Authentication | *Python, Machine Learning, Time Series Data*

- Implemented a biometric-based identification system using **Time series data** from Google Glass to perform continuous user authentication in mobile banking applications for secure account access, capturing and analyzing unique movement patterns of each user to create a reference pattern for biometric identification.
- Trained **SVM, Decision Trees, and Random Forest** models, with Random Forest achieving best accuracy.

Technical Skills

Languages: Python, SQL, JavaScript, Java, HTML, CSS, R, C/C++, PHP.
Tools and Frameworks: MongoDB, Hadoop, AWS Cloud, Spark, Flask, MySQL, Bootstrap 5, Tableau, Airflow, PowerBI, React, Node.js, Unreal, NumPy, Pandas, Seaborn, Matplotlib, Dialogflow, Firebase, Kafka, Excel, RStudio.

Publications

International Journal for Research in Engineering Application & Management (IJREAM) May 2021: Aashna Shroff, Anushka Tare, Bhavna Arora - 'Real-Time Cardiovascular Disease Prediction using Machine Learning'.

Volunteering & Achievements

- **Certifications:** Google Data Analytics Certificate (Coursera), Python for Data Science and Machine Learning Bootcamp (Udemy), Advanced Databases and SQL Querying (Udemy).
- **Tutor at We Can We Will Foundation (NGO):** Coached more than 15 students by delivering classes in Mathematics and Science. 'We Can We Will' is an organization with the goal of assisting children from low-income families to acquire high-quality education and additional support for growth.