ROHIT LALCHAND VISHWAKARMA

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EDUCATION

University at Buffalo – SUNY |3.6/4.0   **Buffalo, New York**

Master's in Computer Science & Engineering   *Aug 2019 - Feb 2021*

Relevant Courses: Analysis of Algorithms, Object Oriented and Design, Data Intensive Computing, Distributed Systems.

WORK EXPERIENCE

Buffalo Botanical Gardens   **Buffalo, New York**

Software Developer   *Feb 2020 – May 2020*

- Developed **a research website** in **asp.net framework**, where my role included enriching the website with **extra features of images upload**, having file validation check, that supported only Image files having size less than 20 MB. **Improved image file storage** on server by dynamically creating folder on server as per PlantID of each upload.
- Further enhanced the website by **adding Image-map feature** which showed entire map of gardens with clickable area to view plant database information. Also, added other features like date picker, get current date and time, improving the look and feel of the website.

Banaao – A Maker's Playground   **Mumbai, India**

Machine Learning Engineer Intern (Software)   *March 2019 – June 2019*

- **Increased the sale** of the company's electronic components by **50%** by developing a chatbot using **Google's Dialogflow API**. Successfully completed its **integration with Facebook**, enriched the chatbot with rich messages like quick replies and cards for a user-friendly interaction.

Ugam Solutions Pvt. Ltd.   **Mumbai, India**

Associate Analyst   *July 2017 - July 2018*

- Enhanced the data preprocessing by implementing manual verification check of the raw data against survey questionnaire logic. This improved the raw data by **30%.**
- Further, the data was improved by **70%** using querying techniques in DMQuery, validating counts using **advanced Microsoft Excel formulae** and suggesting important and necessary insights to the clients.
- Utilized **IBM SPSS Base Professional** tool to generate the tabular representation of the data in HTML and CSV, enabling valuable insights important for making business decisions

TECHNICAL SKILLS

Proficient: Java, Python, HTML5, CSS3, JavaScript.

Comfortable: Spring Boot, MySQL, C#, C, C++, NumPy, Pandas, AWS, Linux (Ubuntu), R, React.js, Node.js, Express.js.

Familiar: Hibernate, Angular 9, MongoDB, PHP, PyTorch, Tableau, TensorFlow, Hadoop, PySpark, Scikit-learn.

PROJECTS

Expense Tracker Application *(Spring Boot, Hibernate, Maven, Angular 9, MySQL, Bootstrap 4)*   *Jan 2021*

- Created an expense tracker application using **Spring Boot** that can successfully perform **create, update, delete an expense** functions along with implementing a **filtering** and **sorting** of expense based on name or amount.

Termination Detection in Distributed System *(PlusCal, TLA+)*   *October 2020*

- Successfully **simulated a distributed programming model** in PlusCal, having a central detector process, which makes sure that all the processes in this distributed system terminate in the end **without violating safety invariant**.

Fact Extraction and Automated Claim Verification *(Python, NLP, HTML, CSS, JavaScript)*   *May 2020*

- To facilitate the fake news validation, developed an **Automatic Fact Check web app,** where given a claim it was verified against the documents of 2017 Wikipedia dump. Used Python's Flask library for its deployment on web.
- Used various NLP techniques along with using **Python's Spacy and TF-IDF** that improved evaluation of sentence similarity between corresponding Wikipedia document's sentences and the given claim.

Movie Genre Prediction *(Python, PySpark)*   *May 2020*

- **Scored 90% accuracy** in correctly classifying the genre labels of the movie given a plot using Random Forest Classifier which involved under sampling to balance the data. It involved feature engineering like **TF-IDF and word2vec**

Simple Android chat application *(JAVA, Android Studio)*   *Jan 2020*

- Implemented a simple chat application in Android using **socket programming in JAVA** where two android virtual devices were created to test the implementation.