ROHIT LALCHAND VISHWAKARMA

25 Callodine Ave, Buffalo, NY 14226 |+1 716-602-0738 | https://www.the-rohit.com/

EDUCATION

University at Buffalo – The State University of New York **Buffalo, New York**
Candidate for Master's in Computer Science & Engineering. Expected Feb 2021
Relevant Courses: Analysis of Algorithms, NLP and Text Mining, Data Intensive Computing, Object Oriented Design.

TECHNICAL SKILLS

Programming Languages: Python, Java, C, C++, SQL.
Web Technologies : HTML, CSS & JavaScript.
AWS Cloud Services : EC2, Route53, CloudFormation, RDS, DynamoDB, S3, Lambda, ELB, IAM, SNS, SES, SQS, etc
Software Packages : NumPy, Pandas, Scikit-learn, Hadoop, PySpark.
Software/Tools : R Tool, Jupyter Notebook, VS Code, Putty, IBM Base Professional, Microsoft Excel, Tableau.

WORK EXPERIENCE

Ugam Solutions Pvt. Ltd. **Mumbai, India**
Associate Analyst July 2017 - July 2018

- Enhanced the data preprocessing by thorough data validation check of the survey data, by verifying it with the survey questionnaire logic and accordingly cleaning the unwanted data in EditPlus Text Editor.
- Further improved the data preprocessing by querying the data through DMQuery, validating counts using advanced Microsoft Excel formulae and suggesting important and necessary insights to the clients.
- Programmed this preprocessed data in IBM SPSS Base Professional tool to generate its tabular representation in HTML and CSV output making it easier to gain valuable insights important for making business decisions.

Banaao – A Maker's Playground **Mumbai, India**
Machine Learning Engineer Intern March 2019 – June 2019

- Boosted the company's electronic components sale through a chatbot developed using Google's Dialogflow API which was integrated with Facebook, where rich messages like quick replies and cards were used for a user-friendly interaction.

PROJECTS

Fact Extraction and Automated Claim Verification (Python, HTML, CSS) May 2019

- To facilitate the fake news validation developed an Automatic Fact Check Claim Verification web app with the 2017 Wikipedia dump where Python's Flask library was used for the model deployment on web.
- Used Python's NLP's RAKE and textblob library to extract keywords from the claim to retrieve the most relevant Wikipedia documents and used Python's Spacy and TF-IDF that improved evaluation of sentence similarity between corresponding Wikipedia document's sentences and the given claim.

Buffalo Botanical Gardens Website (C#, MySQL, HTML, CSS, JAVASCRIPT) May 2019

- Enriched the Buffalo-Gardens research website by adding extra features of images upload, which included file validation check supporting only Image files having size less than 20 MB. Improved the image file storage on server by dynamically creating folder on server as per PlantID on each upload.
- Enhanced the website but adding Image-map 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 file of the website.

Movie Genre Prediction using PySpark (Python, Spark) May 2019

- 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.

Implementation of Threading and Scheduling Components of PintOS Operating System (Ubuntu, C) Oct 2019

- Improved the Alarm clock system in PintOS operating system by removing the busy-waiting of the thread using semaphores and interrupt handler.
- Refined the threads scheduling by implementing the priority wise scheduling of threads and used Multilevel Feedback Queue Scheduler to reduce the average response time for running jobs on the system.