Sahil Shrivastava

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Summary of Qualifications

- Bachelors in Computer Science and enrolled in Masters of Computer Science program at Washington State University (Graduating in June 2023)
- Internships and university projects in coding languages like Python and R
- Team leader for multiple internship projects in Machine Learning and Database Management/Analysis
- Outstanding reviews from faculty regarding the final year bachelor project on Computer Vision
- Eager to learn about recent technologies and grow in building customer centric software products

Education

Washington State University at Pullman, Washington **Aug 2021-June 2023**
Master of Science, Computer Science 1st Sem GPA: 3.67/4.00
Courses Taken: Data Science, Machine Learning, Artificial Intelligence

Maharashtra Institute of Technology, Pune **July 2016**
Bachelor of Engineering, Computer Science CGPA: 7.19 (out of 10)

Internships

ThataScience **1/2021-3/2021**
Key Skills: Python, Machine Learning, Data Visualization, Data Analysis, Web Development, NLTK

Team leader for multiple projects varying in fields such as machine learning and data Analysis.

- Got a first-time experience in managing a team to complete deliverables in an aggressive timeline
- Polished machine learning concepts and performed data analysis/web hosting for finished products using Heroku.
- Worked on text classifications for Sentiment Analysis of sentences and used machine learning algorithms (NLTK) to classify real and fake emails.

Yantra Harvest, Pune **6/2019-8/2019**
Key Skills: Python, Deep Learning, Neural Networks

Learned basic concepts of deep learning and real-world applications of deep learning. Constructed my own Image classifier using tensorflow with CNNs.

- Learned how to use basic deep learning libraries and how to make use of them in real-world applications.
- Got hands on experience for using tensorflow and other python libraries for real-time image classifications

KanORS Energy Researching Modeling, Noida **12/2018-2/2019**
Key Skills: Python, Machine learning, Data Analysis

Worked on Market basket analysis-based projects to understand and predict customer behavior and the make offers depending on what products were being bought together by said customers.

- Given a table with records containing information about all the previous customer transactions and their memberships, we classified them as a good/bad customer
- Looking at how certain products were bought together, visualized data to make certain offers that would suit the customers preferences.

University Projects

Maharashtra Institute of Technology, Pune **9/2019-10/2019**
Second Heart Attack Probability using Rapidminer
Key Skills: Rapidminer, Data Analysis/Visualization

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Used Rapidminer Data Science software to detect the probability of a second heart attack from a database of patients who have already suffered a heart attack.

- Using a database available from Kaggle we made predictions on the data using several features that were provided in the database.
- Made use of multiple machine learning algorithms to predict the chances of a second heart attack like Naïve Bayes, Decision Trees and KNN Clustering.
- Used multiple machine learning methods to improve accuracy and made use of data visualization to get rid of missing/wrong data.

Maharashtra Institute of Technology, Pune **9/2019-10/2019**
Online Movie Booking portal using PHP MyAdmin
Key Skills: PHPMyAdmin, SQL, Database Management

Used PHPMyAdmin along with SQL to manage a database and allow real-time purchase of movie tickets.

- Used PHPMyAdmin to host a server and used SQL in the backend to manage the database.
- The server would allow the user to sign in or register a new account, using which they would be allowed to book tickets for the movies available on the site.
- Made use of SQL tables to keep track of the registered users and verify login information, all relevant data regarding a booking was also stored in a different foreign-key joint SQL table.

Maharashtra Institute of Technology, Pune **2/2019-3/2019**
Water Level Detection using Arduino
Key Skills: Python, Human Computer Interface

Made use of an Arduino Uno REV3 to detect the water level in a tank, if the threshold water level is crossed an alarm would go off and a message would be sent to the registered mobile number.

- The Ultrasonic sensor in the Arduino Uno was coded in Python to detect the water level when attached in a perpendicular fashion to the inner surface of the tank.
- If the water level exceeded the threshold value an alarm would be set off and the Arduino was also coded to send a text message to a registered user in that case.

Maharashtra Institute of Technology, Pune **3/2020-10/2020**
Arbitrary speed limit using Machine learning.
Key Skills: OpenCV, Python

Made use of Haarcascade classifier to Identify vehicles then calculate the speed of the cars using the ppm (pixel per meter) traveled by the car in a second and translate that to the actual speed.

- Initially a camera was set up ahead of the arbitrary speed zone, which would detect the total number of cars at an intersection. Another camera is set perpendicular to the road to detect any cars going above the arbitrary speed limit.
- Using this information, a simple speed limit would be set for that road in real-time depending on the traffic ahead (lower the traffic higher the speed limit).

Yantra Harvest, Pune **6/2019-7/2019**
Custom object Detection using Tensorflow
Key Skills: Python, Deep Learning, Neural Networks

Made use of the tensorflow library and CNN learning algorithm to develop a classifier that could detect the learnt object in the image and construct a bounding box around said object and list the accuracy.

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- Given 100 unlabeled images of cloth hangers in different orientations, used LabelImg to label all the images. Output was an XML with all the corresponding coordinates for the hangers.
- Used the CNN classifier to learn all the features from those images and XML files to build a classifier.
- Classifier performed with a high accuracy of about 92% for detecting the hanger, which is high considering the training set was only 90 images.