Hrishikesh Mahesh Telang

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Education

Syracuse University – *School of Information Studies* ***May 2023***
MS – Information Management, Certificate in Advanced Studies – Data Science
Relevant Courses: Introduction to Data Science, Management Principles for Information Professionals, Information Management and Technology, Database Administration Concepts & Database Management

Mumbai University – *St. Francis Institute of Technology* ***Nov 2020***
BE – Computer Science, General
Relevant Courses: Data Structures, Database Management Systems, Machine Learning, Data Warehousing and Mining, Big Data Analytics, Management Information Systems

Relevant Experience

Research Analyst – *iConsult Collaborative at Syracuse University – Syracuse, NY* ***Sept 2021 – Present***
- Co-ordinate with the College of Professional Studies to develop key performance indicators (KPIs) and acquire actionable insights to analyze the online student population.
- Explore qualitative characteristics such as student demographics, infer cause-and-effect scenarios based on data trends, and correlate data items and visualization through multiple dashboard views using Tableau.

Research Assistant – *St. Francis Institute of Technology – Mumbai, India* ***Dec 2020 – Jun 2021***
- Devised an algorithm on the extended application of Bins Approach using statistical moments for Malaria Parasite and COVID-19 Image Classification from Normal and Viral Pneumonia Images using Python.
- Examined the feature vectors extracted from the algorithm and its contribution to the detection and classification process of Malaria Parasites using matplotlib and seaborn libraries of Python and Excel Visualization Tools.

Relevant Projects

COVID-19 and Malaria Parasite Detection and Classification by Bins Approach with Statistical Moments using Machine Learning *(Image Processing and Machine Learning)* ***Dec 2020 – Mar 2021***
- Performed a comparative analysis of bins approach using binary classification of 24,000 Malaria Parasite samples (Parasitized, Uninfected) with 2,600 samples for COVID-19 classification (COVID-19, Normal) using Bins Approach with statistical moments.
- Extracted 96 components from the feature extraction algorithm and passed through the feature selection techniques to filter and perform dimensionality reduction.
- Obtained the accuracies in the range of 95-99% for the malaria dataset and evaluated a comparative performance of the classifiers using Malaria Parasite and Lung Classification using precision, recall, F1 score, and the AUC.

Application of Bins Approach with Textural Moments using Machine learning for Binary and Multiclass detection and classification for Lung Image Databases *(Image Processing and Machine Learning)* ***Dec 2020 – May 2021***
- Evaluated the proposed system using a binary and multiclass classification system for 1,300 samples each of COVID-19/Normal/Viral Pneumonia X-ray images using a pseudo-coloring algorithm and Global Histogram Equalization (GHE).
- Executed bagging, boosting, stacking ensemble machine learning classifiers and obtained the accuracies at 88.23%, 88.42%, and 88.34% for the Lung Image Dataset using Python.
- Scrutinized the results and provided inferences of each color component and bins feature vector that contributed to better performance by the feature selectors.

Technical Skills

Programming Languages: R, Python (NumPy, Pandas, Matplotlib, Scikit Learn), SQL, HTML, CSS, JavaScript ES6
Databases: PostgreSQL, MS SQL Server, MySQL
Analytics & Visualization Tools: Tableau, Google Analytics, Jupyter Notebook, Matplotlib, Seaborn
Soft Skills: Leadership, Strategic Planning, Team Management, Team Building, Mentorship
Software: MS Excel, MS Word, MS PowerPoint

Leadership Experience

TEDxSFIT – *Co-organizer – Mumbai, India* ***Feb 2019 – Aug 2019***
- Headed and supervised the first event of TEDxSFIT as a Founding and Core Committee Member held on 25th August 2019.
- Curated and drafted speeches, valedictory, sponsorship proposals, letters of invitation, host script, and permission letters.
- Administered overall communications with the speakers and addressed challenges in collaboration with the higher officials, conflict scheduling, managed stage and logistic planning and entire program flow of the event.

Publications

2020 5th IEEE International Conference on Computing, Communication and Automation (ICCCA 2020): ***Effective Performance of Bins Approach for Classification of Malaria Parasite using Machine Learning.*** ***Oct 2020***