SAYLI NARKHEDE (she/her/hers)

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WORK EXPERIENCE

Software Engineer *(Reuters Technology Group Inc.)* **2022 - Present**

- Formulate various RESTful APIs to develop web solutions for customers
- Utilize Jupyter Notebooks for data cleaning, exploration, feature engineering, and modeling

Data Analyst – Machine Learning (*CAN Lab, Volunteer)* **2021 - 2022**

Data Analyst – Machine Learning (*CAN Lab, Part-Time)* **2019 - 2020**

- Designed the experimental setups for balanced, imbalanced, and unstructured clinical trials dataset
- Finalized feature selection across 10 machine learning and statistical tests
- Implemented data mining, K-fold cross-validations, and optimization techniques to tune hyperparameters
- Evaluated the final fit of classifiers on test datasets using 5 classification performance metrics
- Collaborated with 5 researchers, and the data acquisition team. Maintained documentation for the findings

Software Trainee Engineer (*Webian Technologies Pvt. Ltd.)* **2015 - 2016**

- Provided web solutions to customers using HTML, CSS, PHP, and MySQL
- Assisted in developing a Content Management System

PUBLICATIONS

- Narkhede*, S.M., Luther*, L., Raugh*, I.M., Knippenberg*, A.R., Zamani Esfahlani, F., Sayama, H., Cohen, A.S., Kirkpatrick, B., Strauss, G.P. Machine learning identifies digital phenotyping measures most relevant to negative symptoms in psychotic disorders: Implications for clinical trials
- *Schizophrenia Bulletin* **2022**

PROJECTS

Businesspeople Classifier *(Python, Flask, CSS3, HTML5, Bootstrap, JavaScript, AWS EC2, nginex)* **2023**

- Built end-to-end project where UI interacted with flask server and performed image classification for 5 different Businesspeople dataset, web scrapped using fatkun chrome extension
- Used OpenCV for face and eyes detection and wavelet transform for feature extraction
- Deployed the trained model to AWS EC2

Interactive Dashboard for HR Department *(Python, SQL, MySQL Workbench, Tableau)* **2022**

- Performed data cleaning, EDA, visual analytics to understand and summarize the data using python
- Provided insights for the jobs details data of a Hong Kong based companies using SQL in MySQL Workbench
- Utilized key findings to create a dashboard in Tableau

Classification of SZ and CHR (*Python, H2O AutoML, Statsmodels, Boruta)* **2022**

- Achieved 84% f1 score in CHR with XGBoost model and 79% accuracy with random forest in SZ
- Transformed the clinical trials for predictive modeling
- Assessed feature selection and ranking by implementing 9 supervised unsupervised machine learning methods and statistical methods such as hypothesis testing, chi-square test, and correlation coefficient

TECHNICAL PROFICIENCIES

- **Programming**: Python, SQL, Java, Object-Oriented Programming (OOP)
- **Web**: HTML5, CSS3, Bootstrap, JavaScript, Flask, REST API
- **Data Science**: H2O AutoML, Statsmodels, Boruta, NumPy, Pandas, Matplotlib, Scikit-Learn, Seaborn, Keras, TensorFlow, NLTK, OpenCV, spaCy, SciPy
- **Tools**: AWS Analytics, Jupyter Notebook, Vscode, PyCharm, Git, GitHub, MS Office, Weka, Tableau, MySQL, MySQL Workbench

ACADEMIC QUALIFICATIONS

The University of Georgia, USA (*Master of Science in Computer Science)* **2018 - 2020**

- **Coursework:** Machine Learning, Privacy-Preserving Data Analysis, Cloud Computing, Biomedical Informatics, Database Management Systems, Algorithms