DRUMIL JOSHI RESUME

EDUCATION

Indiana University Bloomington

Master of Science - Data Science; GPA: 4.0

Bloomington, Indianapolis

Aug 2022- Jun 2024

Dwarkadas J Sanghvi College of Engineering

Bachelor of Engineering - Electronics and Telecommunication; GPA: 9.00

Mumbai, India Aug 2018- Jun 2022

SKILLS SUMMARY

- Programming: SQL, Tableau, R, MongoDB, Python(Numpy, Pandas, Scikit Learn, Seaborn, Azure ML Studio, Folium)
- Machine Learning: Data Preprocessing, Regression Modeling, Random Forest, kNN Classifier, K-means Clustering, Feature Extraction (PCA, Factor Analysis), XGBoost, Support Vector Machine
- Statistics: Inferential Statistics, Hypothesis Testing (A/B Testing), Regression Analysis.
- · Soft Skills: Team Building, Public Speaking, Team Player, Gardening, Reading, Travelling

RECENT EXPERIENCE

Dwarkadas J Sanghvi College of Engineering

Mumbai

Research Assistant Under Dr.Sunil H Karamchandani

Aug 2021 -Jun 2022

- Designed System for Monitoring the Health of Developing Infants from Cardiotocography Using Statistical Machine Learning, Achieved precision of 0.95 and accuracy of 0.92.
- Strengthened Customer Churn prediciton system for Telecom start-up company by increasing gini and kappa coefficient by 10 percent.
- Co-Authored and published 14 Research Papers on solving real-time problems related to Smart Energy Grid ,
 Renewable Energy and irregularities in Financial Industry using Machine Learning.

TalentHome Solutions LLP

Mumbai

Junior Data Scientist (Intern)

Jan 2021 -Jun 2021

- Revised Real-Time Application of The **Augmented-Dickey Fuller Test** in ARIMA and SARIMAX to make the p-value less than 0.05 and increased **RMSE** Value by **10 Percent**,
- Analyzed Different Classification Algorithms and articulated an increase of 4 percent Accuracy and devised increase in precision by 0.15

SELECTED PROJECTS

Optimizing Bank's Financial NPAs Using Machine Learning: Python, ML Azure Studio

- Analyzed BharatPe's Merchant Loan Vending System and deviced loan default predicition system design for Banks and NBFCs.
- Accumulated Inputs from Industry and Market Leaders on the software pipeline and Evaluated all the ML Algorithms on 6
 Different performance Metrics.

Smart Water Management System: Python, MIT App Inventor, Google Firebase

- Interpreted live imminent data from a wireless microcontroller(ESP8266) and displayed it on Android Application developed on MIT APP Inventor to track day-to-day devices to the users
- · Data Storage system was designed in Google Firebase and the system followed norms stated by Government Of India

Interactive Dashboard for UK Customer Bank Data: Tableau

- · Compared the region wise average balance in-terms of its job classifications. Classified Region
- Created a global date range parameter. Include interactive filters for Job classifications and Highlighters for Region in the final dashboard

IBM Employee Attrition: Python, Jupyter Environment

- Interpreted Decision-Tree and Random Forest Algorithms Using Importance Plots and tuned hyper-parameters to imporve Accuracy by 5 percent.
- Created Interactive GUI Components in Jupyter notebooks using widgets.

SELECTED INTERNATIONAL PUBLICATIONS

- : Gopani, M., Trivedi, H., Lotia, H., Joshi, D. and Pal, R. Computation of Amazon Stock Price for the next decade using ARIMA and SARIMAX Model. International Journal of Computer Science Engineering and Information Technology Research (Impact Factor - 11.1093
- Joshi, D.: Parikh, A., Mangla, R., Sayed, F. and Karamchandani, D.S. Al Based Nose for Trace of Churn in Assessment of Captive Customers. Turkish Online Journal Of Qualitative Enquiry (Scopus Indexed)
- Joshi, D.: Sayed, F., Jain, H., Bandi, Y., and Karamchandani, D.S.A Cloud Native Machine Learning based Approach for Detection and Impact of Cyclone and Hurricanes on Coastal Areas of Pacific and Atlantic Ocean. Journal of University of Shanghai for Science and Technology Journal (Scopus Indexed)
- : Sayed, F., **Joshi, D.**, Bhave, E., Chokshi, D. and Pal, R. *Projection of African Economy for the Next Decade using Linear Algebra and Applied Machine Learning.* **Design Engineering (Scopus Indexed)**

HONORS AND AWARDS

- Honored CopyRight by Government of India for Classification Of Human Child (FETUS) Health From Cardiotocographic Data Using Machine Learning Techniques(SW-15359/2022)
- Awarded Position of Manuscript Reviewer at International Journal of Electrical and Computer Engineering Systems.