MD JAFFAR MOLLAH

- Hometown - Jamshedpur
- Contact - 8101586131
- Mail - jaffarmollah4u@gmail.com

EXPERTISE

- Expertise in analyzing and coordinating data, generating reports, tables, listings and graphs in either **HTML, PDF or RTF formats according to the client specifications** using SAS/R/Python.
- Extensive use of SQL to perform queries, join tables, etc.
- Working on different libraries **pandas, numpy, sklearn, statsmodels**, etc. in python.
- **Data Visualization** using matplotlib, seaborn, plotly, cufflinks in python and ggplot2, plotly using R
- Dashboard Preparation using **Shiny, Power BI and Tableau**
- **Extensive knowledge of statistical techniques**--Linear and Logistic Regression, GLM, Factor analysis, Support Vector Machines, Multivariate Analysis, Stochastic modeling.
- Text Analytics, **Data Mining techniques** (Clustering, Classification, Association), Market Basket Research using R
- Fuzzy matching, Predictive modeling and building efficient **algorithms using machine learning techniques in python**

SOFTWARE SKILLS

- SAS Analytics
- R Analytics
- R Shiny
- Python
- SQL
- MS – Excel
- VBA
- Tableau
- Power BI

WORK EXPERIENCE

- **Capabilities and Insights Analyst at Mckinsey Knowledge Centre India Pvt Ltd., Gurugram**
  - Tenure – 6th Dec 2021 – 27th Jan 2022
  - About the role –
    - Working in the **Economics Research** and analyzing data based on client requirements
    - **Automating model** to study the effects of automation on different occupations in Labor Market across different countries.
- **Actuarial Analyst at Swiss Re Global Business Solutions India Pvt. Ltd., Bengaluru**
  - Tenure - 1st July 2020 – 3rd Dec 2021
  - About the role –
    - **Governance and Audit of experience studies in Asia** Market
    - Built **End to End ES Global Model for Experience Analysis** on R by creating **3 R packages and Shiny App for visualization using Git setup and Azure**
    - Identification of different risk factors driving business in different regions in Asia.
    - Performed **experience studies for UK Market**
- **Executive – Actuarial Analytics at Max Bupa Health Insurance Co. Ltd., New Delhi**
  - Tenure – 12th April 2017 – 10th August 2017
  - About the role –
    - Worked under the Analytics team to clean raw data and process the data to get the final output and generate reports in html and rtf formats.
    - Preparation of **Monthly MIS** for various departments.
    - Worked on building automation process to handle the data in the calculation of premium and claims.
    - Worked on **building the Reinsurance model.**

OTHERS

- **Student Member of Institute of Actuaries of India**
  - Cleared CS1 – Actuarial Statistics
  - Preparing for CS2 – Risk Modelling and Survival Analysis
- **Internship – CSIR – Central Leather Research Institute, Chennai**
  - May 2019
  - Worked on building an ARIMA model and forecasting the export value of leather and leather goods in India from 1994-2017.
  - Prepared SPSS script codes to automate the work for doing data validation and analysis of the data available under the department.
  - Linking the various files to produce output according to the desired template.
- Work **part time as an Online Statistics Subject Expert in Chegg Inc.** since September, 2016

EDUCATIONAL QUALIFICATION

Degree	Year	University	Grade/Percentage
M.Sc (Statistics)	2020	University of Madras, Chennai	8.85
Certificate Course in BIBA (Business Analytics)	2017	OrangeTree Global, Kolkata	--
B.Sc (Statistics)	2015	Presidency University, Kolkata	7.67

MISCELLANEAOUS

- **Won 3rd Prize in All-India Essay Competition conducted by Ministry of Statistics and Programme Implementation, Government of India**

PROJECT/CASE STUDIES

1. **Dissertation: Classification based Prediction of Carbon Emission (Climate Change)**
   Using longitudinal data to build complete model and sub-models based on clustering of data to find sub-groups. The thesis involves use of following techniques:
   - **GLM, Lasso and Ridge Regression**
   - Clustering of longitudinal data using **'Euclidean distance based on space and time'**
   - Building sub-models based on the clustering
   - Building classifier using **SVM and Decision Trees**
   - After forecasting, categorization done to see the status of carbon emission and change in it
2. **Record de-duplication using Machine Learning Models at Swadata, Chennai**
   Using fuzzy matching techniques to build machine learning models to compare records in large amount of data with focus on making the algorithm efficient enough to run in short time.
   - Calculating **string distance using different methods** and giving weightage to each variable to calculate record measure for comparison.
   - Using Machine Learning techniques to **recalculate the weights** for effective comparison and reduce the runtime of large amount of data.
3. **Milliman Project at Max Bupa Health Insurance Co. Ltd.**
   Worked on the testing and modification of the tool developed by Milliman.
   - The task was to test the working of the **premium and claims code developed by Milliman** and aligning it with the process developed by Analytics team.
   - **Testing the reinsurance model** and finally the output moving into creation of triangles for further calculations and reconciliation.
4. **Project on Credit Risk Modeling at OrangeTree Global**
   Worked on a project related to Financial Markets wherein I had to examine the trust-worthiness of a prospective customer and his/her possibility of **defaulting on loan**.
   - The task was to build a **Behavioural Credit Risk Model** based on a large sample of data by applying **Logistic Regression on SAS and R**
   - The data had various information related to **behaviour transactional details** of the customers and their performance in repayment.
5. **Project on Churn Analysis at University of Madras**
   Worked on a project to predict the **customer churn and retention rates in telecom industry** using Markov Chain
   - **Questionnaire was prepared** to collect data regarding change in the network within a time period
   - The count of shift was then converted **to transition probability matrix** and was checked for stationarity
   - Analysis was done based on the results obtained

ONLINE CERTIFICATIONS

- **Topper in Marketing Research and Analysis-II** conducted **by IIT-Roorkee** through NPTEL
- **Programming, Data Structure and Algorithms using Python** conducted by **Chennai Mathematical Institute** through NPTEL
- **Topper in Data Science for Engineers** and **Python for Data Science** by **IIT-Madras** through NPTEL
- **Machine Learning A-Z: Hands-On Python & R in Data Science and Python for Machine Learning and Data Science Bootcamp by Udemy**
- **Financial Risk Analytics by Great Learning, Chennai**
- **Predictive Analytics from Indian Institute of Management, Bangalore**
- **Attended Summer Course on Analytics conducted by IIT – Guwahati**