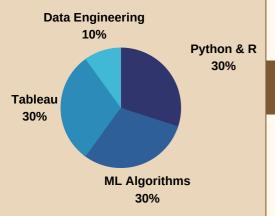


Areas of Expertise



Certification

- "Introducing Robotic Process Automation (RPA)" (Automation Anywhere).
- Artificial Intelligence Foundations: Neural Networks (NASBA).
- Building Deep Learning Applications with Keras 2.0(LinkedIn).
- Business Analytics (LinkedIn).erc

Business /Domain Knowledge

- Construction and Infrastructure Development.
- HR Procurement.
- Project Planning and Control

MAINAK RAY

MACHINE-LEARNING / DATA VISUALIZATION/ PREDICTIVE ANALYTICS

Andul Choudhuri Para ,Howrah-711302 West Bengal ,India +91 8420803481 mainakr748@gmail.com

Professional Summary:

- I have three years of working experience as a business data analyst.
- I have worked with various types of projects using Regression, classification-based prediction models, MPL, LSTM
- Comfortable with various supervised and unsupervised ML algorithms such as CHAID, logistic & multiple regression analysis, decision tree-based models Xgboost, AdaBoost, etc,
- Comfortable with R and Python programming languages.
- Comfortable with various deep learning frameworks (Keras, TensorFlow).
- Comfortable with BI software such as Tablue / Power Bi, SPSS.
- · Comfortable with Databricks.
- Comfortable with SQL(MySQL) and NO-SQL (PYMONGO) databases.
- Comfortable with Project management software (P6 EPPM, MSP).
- Working knowledge of NLP and RPA.

Professional History

Buzzworks Business Services Pvt. Ltd (June 2021 - present). Associate Consultant-ERM 1 (Enterprise Risk Management: Operations)

Client: Capgemini.IN | June 2021 - present

Data Analysis and Business insights:

- Preparing Dashboards using Tableau and Excel.
- Data Analysis using Excel (ex: exponential smoothing, VLookup, V-Look up, H-Look up, Sumif, Pivot, etc.)
- Preparing DECK and SWOT Analysis, Predictive Analytics, and Change management.

Automation:

- Prepare a Python tool that can Automate the data extraction from excel and generate bulk word documents for communications such as automated challan generation, and vendor communication daily basis, prepare daily reports, etc
 - Module use : PySimpleGUI,Pandas,DocxTemplate.

Prepare Macro Enable workbooks for daily Report generation.

Achievements:

- Prepared POC for "Asset Management and Control" to minimize the financial risk.
- We prepared an end-to-end business flowchart of the "Contract Extension system "to ease AUTOMATION and hassle-free procedure.

Professional History

Infinity PMC Solutions Pvt Ltd Professional Service Consultant Client: Rolls-Royce.Com | JAN 2021-Jun 2021 (Under Contract)

Data Analysis and Business insights:

- Preparing project management and control Dashboards in Excel.
- Data analysis (ex: Predictive analytics, PERT-CCPM) using MSP, Primavera P6, and PYTHON.
- Preparing Project schedule and risk modeling using PERT -CPM method.
- Preparing go-ahead plan implementing best practices to ensure the integrity of data and quality of output after the study of several reports, and drawings Contracts.

Achievements:

- Prepared POC for "Vendor Performance Scoring System" to complete the project within budget and schedule.
- Prepared EOT to work out a win-win strategy for Extension of time without penalty ...

NerdyTurtlez.com Subject-matter expert (Machine Learn and AI) Client: start ups | Jul 2020 - Oct 2020

Data Analysis and Business insights:

- Preparing project management and control Dashboards in Excel.
- Preparing B-PLAN for start-ups.
- writing technical blogs on machine learning and data science.
- Predictive analytics using WEKA, R, IBM SPSS, and Python.

Achievements:

- Publish Python packages on PYPY.
 - binary-decision-parameter (https://pypi.org/project/bianary-decision-parameter/).
 - The main focus of the project is to find out the best parameters of the decision tree to achieve the desired results for example recall, accuracy,f_score, and so on.
 - TSmodel 0.2 (https://pypi.org/project/TSmodel/)
 - The main focus of the project is to find out the best parameters of ARIMA based on the initial guess.

S. K Samanta & Co. (P) Ltd.(April2019-Jun 2020). Gannon Dunkerley & Co., LTD. (OCT 2017 -JAN 2019). Graduate Engineering Trainee

Data Analysis and Business insights:

- implementation of best practices to ensure the integrity of data and quality of output after the study of several reports, and drawings Contracts.
- Data analysis and risk modeling using MSP, Primavera P6, primavera Risk, and Excel.
- Assist in the calculation of Budget Preparation as well as material Estimation.
- Ensure that the vendor payment is released on time as per the agreement clause.

Reports:

- Ensure that the reports are submitted on time as when required by the Client and management.
- Maintain monthly and yearly progress reports and No Show reports.
- Maintain vendor performance report.
- Ensure that the vendor payment is released on time as per the agreement clause.



Master of Science (Mathematics) (Pursuing) (Online lovely professional university); 2022-2024.

IBM Machine Learning Professional Certificate

- Supervised Machine Learning: Classification.
- Exploratory Data Analysis for Machine Learning.
- Supervised Machine Learning: Regression.
- Unsupervised Machine Learning: Clustering.
- Time series analysis and survival analysis.
- Artificial neural network and reinforcement learning

Bachelor of Technology (Maulana Abul Kalam Azad University of Technology); 2017.

Graduated with B.Tech in Civil Engineering with a special interest in Earthquake engineering, operation research, and FEA.

PROJECTS



https://github.com/mainak-cmd

Factors Market Mix Modeling on Amazon Inventory Data. (https://github.com/mainak-cmd/MMM/tree/main)

- NLP Techniques are used to calculate the popularity factor as a numerical factor (0-1scale).
- Using this factor and price we can determine how much promotion a product needs.

Capgemini-Tech-challenge-2021

- The main focus of the project is to prepare a recommendations system for cloth and electronic goods.
- · Recommendations system :
 - Collaborative system
- · Algorithm use:
 - NearestNeighbors(algorithm='brute', metric='cosine')

House Prices - Advanced Regression Techniques (ML PROJECT)

- Feature selection using lasso, prediction using random forest with hyperparameter tuning.
- kaggle rank 5682
- RMSE score 0.25592

Factors Influencing strength of concrete -machine learning approach(ML PROJECT).

- For these projects, eight factors are considered Cement, Blast Furnace Slag, Fly Ash, Water, Superplasticizer, Coarse Aggregate, Fine Aggregate, and Age.
- Algorithm use:
 - Feature selection: LassoCV
 - Model creation: Polynomial regression
- RMSE OF TRAIN SET 0.003621894295925656.
- RMSE OF TEST SET 0.004775801136676444

Simple material estimator for residential buildings

 Preparing an Object-oriented program in python to estimate building materials and labor resources for simple residential buildings.