

MAINAK RAY

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Professional Summary

Motivated and results-driven Data Analyst with a proven track record in data analytics and process mapping. Identifies business needs and develops valuable solutions to improve accuracy and process optimization. Drives business success with recommendations based on data findings.

Skills

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| • Programming Languages: C++, R, Python | • Design Tools: CANVA, Draw io |
| • Databases: Mongo DB, SQL | • CLI: PowerShell, CMD |
| • Bi Tools: Tableau, Virtual Agent | • Statistical Analysis, Machine Learning |
| • Statistical Tools: Minitab, SPSS | • Object-Oriented Programming (OOP), |
| • Management Tools: JIRA (basic) | Multithreading in Python |

Work History

Data Analyst and Automation (ERM)

Associate Consultant, 06/2021 to Current

Buzz works Business Services Pvt. Ltd – Pune, India

Client: Capgemini India Private Limited

- Coordinated statistical data analysis using **Python**, design, and information flow.
- Created various Excel documents to pull metrics data and present information to stakeholders for concise explanations of the best placement for needed resources using **PowerShell –scripts, VB-Scripts, and Python**.
- Maintain large code base and provide technical support to the operation.
- Designed and developed BGV documentation management systems in **Python** that meet user needs and improve productivity.
- Cut 8% from the Onboarding and BGV budget by developing and deploying a Chatbot on the team.

Technologies Used: Python, VB-Scripts, PowerShell –scripts, Tubule, Draw io, Virtual Assistance

Civil and Structural Engineering

Professional Service Consultant, 01/2021 to 06/2021

Infinity PMC Solutions Pvt Ltd – Orissa, India

Graduate Engineering Trainee, 10/2017 to 06/2020

S. K Samanta & Co. (P) Ltd – West Bengal, India (2/4/2019 - 26/06/2020)

Gannon Dunkerley & Co., LTD – West Bengal, India (30-10-2017 - 22-01-2019)

- Responded to technical concerns quickly and effectively devised solutions.
- Applied mathematical skills and understanding of engineering principles to design new products, tools, and systems.
- Conduct **A/B Testing**, and **Regression Analysis** on Business Data using R, Minitab, and SPSS.
- Conduct **PERT-CPM**, and **LOB** using ORACLE Primavera P6, MSP to prepare complex scheduling.
- Studied blueprints and stayed up to date on the latest **CAD technologies** and **Staad Scripting**.

Technologies Used: Minitab, IBM SPSS, ORACLE Primavera P6, MSP, R, Staad Scripting

KEY PROJECTS & CONTRIBUTIONS

Sl.No	Project Name	Objective	Domain	Tools Use	Associated with
1	Asset Management and Control	Prepared Flow -Chart of the Business flow to minimize financial risk	Business Analysis	Draw io	Capgemini India Private Limited
2	Contract Extension system	Prepared an end-to-end business flowchart to ease AUTOMATION and hassle-free procedure.	Business Analysis	Draw io	Capgemini India Private Limited
3	Automating BGV File Management system	Designed and developed a documentation management tool That help to minimize the response time.	Automati on	Draw io, Python (PySimpleG UI, DocxTempl ate)	Capgemini India Private Limited
4	BGV Chabot	Developing and deploying a BGV Chabot on teams to ease the procedure, minimize the total operation cost, and cut it down to 8%.	Automati on	Virtual Agent, Power Automate	Capgemini India Private Limited
5	EDA of procurement data	Prepared a dashboard in Tableau for the EDA of procurement data, which helped management to plan onboarding capacity by projecting the number of future onboarding.	Business Analysis	SQL, VMS databases, Tubule	Capgemini India Private Limited
6	TSmodel 0.2 https://pypi.org/project/TSmodel/	The project's main focus is to find out the best parameters of ARIMA based on the initial guess.	Data Science	Python (Time series)	Freelance
7	MMM: NLP Approach https://github.com/mainak-cmd/MMM	Find the right combination of products, prices, promotions, and distribution (place) so that a company can gain and maintain Future Stocks.	Data Science	Python (NLP, Ensemble learning)	Freelance
7	Binary-decision-parameter https://pypi.org/project/bianary-decision-parameter/	The project's main focus is to find out the best parameters of the decision tree to achieve the desired results, for example, recall, accuracy,f_score, etc.	Data Science	Python (CERT, Elastic Net)	Self-project
8	Predicting-the-TS- - pattern-of- Invesco-Value- Municipal-Income- Trust-IIM-	The project aims to find out when the pattern of a time series will repeat using random walk and simulation https://github.com/mainak-cmd/Predicting-the-TS-pattern-of-Invesco-Value-Municipal-Income-Trust-IIM-	Data Science	R (ggplot, forecast , ex smooth etc)	Self-project

Recommendation system in Capgemini Tech Challenge

- The project's main focus is to prepare a **Recommendation system** for cloth and electronic goods.
- Nearest Neighbors (algorithm='brute', metric='cosine')

Education

- **Master of Science (online):** Mathematics and Data Science, Expected in 04/2024 **Lovely Professional University** - Phagwara, Punjab.
- **Bachelor of Technology:** Civil Engineering (with a special interest in Earthquake engineering, operation research, and FEA) 7/2017 Abul **Kalam Azad University of Technology**, -West Bengal.

Certifications

- **Introducing Robotic Process Automation (RPA)**, Automation Anywhere - Issued Feb 2022
- **Certified Machine Learning Engineering**, IBM - Issued Nov 2022
- **Guided project on basic SCRUM project in JIRA**- Issued January 2023
- **Visual Analytics with Tableau**, University of California, Davis- Sep 2021
- **SQL (Basic)**, HackerRank - Nov 22

Declaration

I hereby declare that the above-given information is true to the best of my knowledge and I bear the responsibility for its correctness