## **ROHIT GHOSH**

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## **SUMMARY**

Experienced Data Scientist with a Master's in Business Analytics and Project Management, bringing 3+ years of expertise in developing data-intensive applications. Specialized in customer segmentation, skilled in predictive modeling, data processing, and data mining using Python, R, SQL, and adept at visualization with Power BI. Translates business needs into impactful deliverables.

PROFESSIONAL EXPERIENCE

	nsussen Deutsch & Associates, LLC.   Data Science Intern, Washington, USA	June 2023 – August 2023
	Implemented Gaussian Mixture Model using R and Python for customer segmentation to categor	
	dynamic segments with an 89% accuracy, leading to improvements in strategies for customer engagement.	
	Executed intricate SQL queries within Snowflake, unveiling crucial insights into customer journey analytics and touchpoints,	
	contributing to a 25% improvement in the accuracy of purchase pattern analysis, optimizing marketing efforts and resource allocation.	
	Leveraged CLVTools package in R to build a Customer Lifetime Value model, integrating 6 significant covariates, achieving an	
	89% accuracy rate, providing actionable insights into future customer behaviour and transaction dynamics.	
	Pioneered the development and application of fuzzy matching algorithm model for detection and elimination of duplicate entries	
	within item and vendor datasets with a 96% overall match rate, resulting in improved data quality, and minimizing redundancy.	
	Implemented advanced anomaly detection using Scikit-learn and Pandas, enhancing data integrity	
na T	analytical models, contributing to more informed decision-making processes for marketing and oper	
		August 2020 – February 2022
	Administered dashboards using Excel, Power BI, and Tableau to analyse, visualize, and document in about the Noteshelf app, resulting in a streamlined flow of information across teams and a 20% increase.	ease in data accessibility.
	Developed and implemented a new data validation system that improved data accuracy by 35% and respectively.	
	in more reliable insights for decision-making for marketing and android development teams of Notes Collaborated with a team of software developers to identify and implement 200+ unique feature rec	
	and 600+ support issues across 15 production versions of Noteshelf – Android, improving user rating	
Thi	ink and Learn Pvt. Ltd.   Data Analyst, Kolkata, India	June 2019 – May 2020
	Orchestrated the implementation time-series forecasting using Python to enhance sales forecasting	•
	improvement in account selection accuracy by 40% and facilitating revenue generation of \$250,000 annually.	
	Leveraged Power BI to build dashboards, yielding tangible results by analysing previous quarters sales data, yielding a 20% increase	
	n sales team efficiency enabling real-time monitoring of KPIs, fostering a 15% improvement in decision-making accuracy.	
	Led the sales team in data-driven initiatives using SQL and optimized pipelines, resulting in a subst	
	targeted efforts. Extracted actionable insights to drive strategic decision-making processes.	
	CADEMIC PROJECTS	
Tir	ne Series Forecasting for National Electricity Demand of UK   SAS Studio   Excel   Python	
	Conducted time series exploration on national electricity demand data using Python, Excel and SAS	Studio, incorporating wind and
	solar power generation as independent variables, to develop forecasting models.	
	Analysed ACF, PACF, IACF, and White Noise graphs to determine optimal parameters for Expor	
	models, achieving a 98% accurate forecast for national demand, following rigorous statistical model comparison and selection.	
	rtfolio Allocation Analysis   Python (PySpark, Pyomo, yahoofinance)	1 Dec 1 and a landarian in Death and
	Crafted a diverse portfolio comprising 9 stocks, seamlessly integrating risk datasets using NumPy an	
	Executed training on 5 years of historical stock data and utilized MPT and moving averages algorithm out of Buy and Hold, Buy and Sell and S&P 500 with buy and sell yielding a profit of 28%.	im to find best trading strategy
Inc	urance Fraud Detection   Python (NumPy, Pandas, Matplotlib)	
	Built machine learning models on Python with hyperparameters, using cross-validation to select the	ontimal fraud detection model
	Achieved a F1 score of 0.82 by adjusting the classification threshold to optimize results on test and t	
	Utilized permutation importance and created partial dependence plots to identify the top five influer	•
	cancellations, providing actionable business recommendations based on the model's insights.	war variables in causing policy
Bo	unty Burgers Decision Support System   R   R Shiny	
	Spearheaded decision support system development using R Shiny package for Burger Bounty, creating	ng a user-friendly Shiny app for
data entry and implementing a dynamic dashboard to visualize aggregate sales, optimizing		
	Developed a user-friendly Shiny app with the UI having 17 interactive input variables and the Serv	
	historical data and run 6 linear multiple regression models to estimate burger revenue and facilitate l	ocation recommendations.
	UCATION	
	iversity of Connecticut School of Business - Hartford, CT	August 2022 - May 2024
IVI a	ster of Business Analytics and Project Management (Business Data Science Concentration)	CGPA: 3.71/4.0

SKILLS

Programming languages: SQL, Python, R, SQL, C, C++, shell scripting

Database: Snowflake, MariaDB, Teradata, MySQL, SQL Server, DBeaver, PostgreSQL, Oracle, NoSQL, Redshift, DynamoDB Cloud, ETL and Analytics: AWS, GCP, Tableau, Power BI, Advanced Excel, JMP (SAS), SAS Enterprise Miner, SAS Studio

Big Data: PySpark, Databricks, Hadoop (HIVE, HDFS, Map Reduce)

Design tools and Methodologies: JIRA, Confluence, Visio, Agile, Scrum, Waterfall, Gantt Chart, Waterfall, NLP

Coursework: Data Mining, Data Science, Business Statistics using R, Predictive Modeling, Adaptive Business Intelligence, Visual Analytics