**Sourabh Shelke**

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**EDUCATION**



**The University of Texas at Dallas,**

Richardson, Texas

August 2021

**-** May 2023

*M.S., Business Analytics*

*3.8 GPA*

Relevant Coursework: Database for business analytics, Advanced Statistics, Predictive Analytics using SAS, Prescriptive Analytics, Spreadsheet modelling and analysis, Business Analytics with R, Cloud Analytics, Big Data.

**Pune University,** Maharashtra, India

*B.E., Computer Engineering*

July 2016 **-** May 2019

*3.5 GPA*

**SKILLS & CERTIFICATIONS**



* **Languages:** SQL, NoSQL, R, Python, SAS.
* **Tools:** SQL Developer, Tableau, Advanced Microsoft Excel, Power BI, Visio, MongoDB, Hadoop, Amazon Athena, Redshift, Glue, Alteryx, Apache Spark, QuickSight, Azure Synapse Studio, UNIX.
* **Technical Skills:** Data Analysis, Federated Queries, Data Visualization, Business Intelligence, Cloud Computing, Data Modelling, Pattern and Trend Analysis, Shell Scripting.
* **Statistical analysis:** Hypothesis testing, Regression analysis, ANOVA, Time-series Forecasting.
* **Other tools:** JIRA, MS Office, SharePoint, ServiceNow, MS SQL Server, Metabase, Confluence.
* **Certifications:** [**AWS** Cloud Practitioner,](https://aws.amazon.com/verification) [**Azure** Enterprise Data Analyst,](https://www.credly.com/badges/6862e75b-f137-4c3d-b0cc-2247ef5d5407/public_url) [**Alteryx** Designer Core.](https://www.credly.com/badges/e69d4783-facf-4909-aaff-b517f1fb5763/public_url)

**PROFESSIONAL EXPERIENCE**

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**Tietoevry,** Pune, India

***Data Analyst*** **August 2019 – May 2021**

* Gathered quantitative data and analyzed it using **SQL** to understand customer behavior, demographics and lifecycle which reduced extra inventory worth $10k to $15k per month.
* Enhanced the process of change and problem management by identifying KPIs and creating real-time **dashboards** using **Tableau** and **Microsoft Power BI**, which reduced the number of recurring issues by 25%.
* Created **Shell Scripts** and scheduled them as jobs to automate monthly invoice reconciliation which resulted in minimizing time spent on month end invoice tasks by 40%.
* Improved Supply Chain Management by implementing **Linear Programming** and **Sensitivity Analysis** to determine the feasible suppliers and minimize the yearly transportation cost by $160k.
* Developed a **Multiple Linear Regression** model with R-Squared value of 0.84 to understand the factors affecting the demand of commodities and thereby improvised promotions increasing the gross profit by 6.4%

**University of Texas at Dallas**, United States

***Teaching Assistant*** *(Adv Statistics for Data Science, Prescriptive Analytics)* **August 2022 – December 2022**

* Created and analyzed progress reports of 180+ students in three classes based on their academic performance.
* Constructed and maintained centralized data of students to quickly generate class statistics for exams or assignments.

**ACADEMIC PROJECTS**

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**Financial performance analysis, University of Texas at Dallas | R, Excel** **August 2022 – December 2022**

* Extracted financial data of two leading airlines and created schema in S3 using **AWS Glue** Crawlers for competitive analysis.
* Created and deployed a **Lambda** function to run federated queries in **Athena** and **Redshift** with S3 as an endpoint to store the query results and analysis in a S3 bucket.
* Identified the progress, profitability over time by using **QuickSight** and did trend analysis to predict near future performance.

**Library Management System, University of Texas at Dallas | SQL, R** **January 2022 – March 2022**

* Designed and configured a relational database using **Oracle SQL** to manage a library having 16000+ books.
* Analyzed student behavior, borrowing trend, retention statistics and improved availability by formulating linear regression models with **R-squared** value greater than **78%** and created dynamic **Tableau** dashboards for further analysis and reporting**.**

**Bitcoin Price Prediction, University of Texas at Dallas | R** **August 2021 – December 2021**

* Extracted time-series data of Bitcoin prices and U.S. equity market and created a dataset by employing Data Cleaning and Data Manipulation techniques.
* Using **AIC**, created and selected **VAR** and **ARIMA** models to forecast Bitcoin price for next 30 days.