

SONAXY MOHANTY

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SUMMARY:

Experienced Data Scientist with 7+ years of expertise in Business Intelligence and Data Warehousing, skilled in ML model development competencies. Proficient in Python, R, SQL, and Microsoft Power BI. Equipped with data wrangling techniques, predictive modeling, and statistical analysis. Experienced in collaborating with cross-functional teams and presenting findings to individuals at all levels of the company. Seeking a challenging role to drive end-to-end analytics delivery, develop strategies for effective data analysis and reporting, and deploy machine learning models to solve complex business problems.

TECHNICAL SKILLS:

- Machine Learning Concepts: Regression Analysis, Time Series Analysis, Clustering, Classification, Decision Trees, Boosting and Bagging algorithms, etc.
- Machine Learning Libraries: R libraries, Python libraries
- Data Analysis and Visualization Tools: R, Python, Tableau, Microsoft Power BI, MS-Excel
- Version Control: Git, GitHub
- Data Science Workflow Tools: Jupyter Notebook, R Studio, Visual Studio Code
- Data Management and Warehousing: SQL Developer, OBIEE, BI Publisher, ODI

CERTIFICATIONS:

- Tableau 2020 A-Z: Hands-On Tableau Training for Data Science on Udemy
- Learning Python on LinkedIn
- R Programming A-Z: R for Data Science on Udemy
- R Programming: Advanced Analytics in R for Data Science on Udemy
- Microsoft Power BI Desktop for Business Intelligence on Udemy

EDUCATION:

- Master of Science in Data Science and Analytics, May 2023, The University of Oklahoma, Norman, Oklahoma; GPA: 3.9 (**Completed**)
- Bachelor of Technology in Electronics and Communication Engineering, May 2014, Siksha 'O' Anusandhan University, Bhubaneswar, India; GPA: 4.0 (**Completed**)

ACADEMIC EXPERIENCE:

The University of Oklahoma

08/23/2021 to 05/12/2023

Graduate Student

Hierarchical time series forecasting of COVID-19:

- Collaborated with an assistant professor to jointly publish a research paper on hierarchical time series forecasting using county-level clustering data of the United States to predict COVID-19 cases.
- Achieved a root mean square error (RMSE) of 22 for county, 2476 for cluster, and 18795 for national level, indicating accurate predictions.

Gas price prediction models:

- Developed various time series forecasting models using R to predict gas prices for each region in Brazil.
- Achieved a mean absolute percentage error (MAPE) of 5.26% on the test dataset, demonstrating high accuracy.

Online retail sales prediction models:

- Utilized various factors related to website traffic and revenue data to predict how much sales revenue can be expected from each customer.
- Using MARS, achieved a root mean squared error (RMSE) of 0.76, demonstrating the model's good performance.

Hospital readmission prediction models:

- Built various classification models using clinical care data from multiple US hospitals to predict the likelihood of hospital readmission.
- Achieved an accuracy of 63.31% on test set using Gradient boost tree, demonstrating the model's good performance.

Food delivery service time prediction models:

- Utilized various factors related to delivery drivers and driving conditions to predict the delivery time for a food delivery service.
- Using Random Forest, achieved a root mean squared error (RMSE) of 0.649, indicating accurate predictions.

Early detection and prediction of heart failure:

- Developed various classification models for early detection and prediction of heart failure using clinical care data from multiple US hospitals.
- Achieved an F1 score of 0.93, demonstrating the Logistic Regression model's high precision and recall.

PROFESSIONAL EXPERIENCE:

Compellier

05/22/2023 to Present

Data Science Intern

- Collaborated with stakeholders to drive the discovery process, understanding business goals, and actively participating in asking relevant questions.
- Managed data processes including acquisition, processing, cleaning, integration, and storage to utilize data science techniques such as machine learning, statistical modeling, and artificial intelligence for impactful learning and insights.
- Evaluated and reviewed the suitability of techniques based on current modeling practices, providing insights and recommendations to senior leadership.
- Applied innovative modeling techniques, and methodologies to contribute to project innovation and advancement.
- Utilized Microsoft Power BI visualization tool and programming languages to drive business expansion.

Tata Consultancy Services

06/23/2014 to 01/06/2020

Business Intelligence Consultant/Senior Developer

- Streamlined financial reporting and reduced person-hours by 40% through the development and implementation of BI Publisher reports, converting MS-Excel Macros.
- Established Data Marts to support financial reporting, working collaboratively with cross-functional teams to identify data relationships.
- Collaborated with sales teams to create and deploy 30 sales dashboards, resulting in a significant increase in daily adoption rates to over 500 views.
- Effectively communicate technical concepts to non-technical stakeholders using OBIEE and BI Publisher expertise.
- Conducted comprehensive OBIEE training sessions for multiple Business stakeholders, resulting in a 90% increase in adoption rates and successful project outcomes.
- Stayed abreast of the latest BI technologies and trends, providing recommendations for scalable solutions to meet business requirements.