Abhishek Goswami

Singapore
- Email me on Indeed: http://www.indeed.com/r/Abhishek-Goswami/114a39acf23ae189

• A practicing data scientist having experience of more than 7 years with a proven expertise in

Work Experience

Data Scientist

Cognizant
June 2016 to Present

Warranty Telematics Solution:
Location: Delhi, India
• Objective: To categorize machines depending on the error pattern and predict the time gap between minor and major error.
• Analytical Approach: Developed "Pattern Recognition" engine using C-Spade and Apriori Algorithm along with queuing theory to predict
the most observed sequences.
o Used "Time-dependent Failure Probability" concept to detect the most probable machines, which are highly likely to fail in future.
o Categorized Business products into "Immediate vs Non-Immediate action" categories depending on how much time does machine
take to fail completely.
• Business Benefits: Business could allocate and prioritize timely checks on machines and managed to reduce warranty claims by 20%.
• Tools Used - R, SQL
• Algorithms C-Spade and Apriori Algorithm

CCAR and DFAST submission for US Investment and Commercial bank
Location- Bangalore, India
• Objective: To provide client with the financial road map of their business by analyzing their balance sheet. To assist client in preparing
and submitting the DFAST and CCAR documents.
• Analytical Approach: Assist client with the end-to-end process of model development, documentation and validation under the FED
guidelines to ensure smooth deliverables
o Worked across business segments like REPO & Reverse REPO, Debt & Equity capital market, and Consumer trading group and used
time series and linear regression methodologies to generate forecast
• Business Benefit: An improved decision making were made possible by providing the 2 year forecast numbers across all major business
segments.
• Tools Used - R, SAS, Eviews
• Analytical Algorithms -ARIMA and Linear Regression

Collections Optimization: Develop a dynamic optimization engine for Telecommunication and Manpower Resource Company
Location- Bangalore, India
• Objective: Client observed a significant rise in 90+ Account Receivable in balance sheet and hence wanted to prioritize/optimize their
collections mechanism
• Analytical Approach: An internal payment behavior of the all the customers were observed for the period of 1 year to develop an
algorithm, which will predict customers with high risk of default.
o Month on month change in payment behavior was considered to determine the impact of change in contact strategy on customers'
payment behavior.
• Business Benefits: By implementing the model, client is able to reduce its 90+ AR bucket by 50% in 2 quarters.
• Tools Used - SAS, SPSS
• Algorithms - CHAID and CART Methodology

Education

M.A in Economics
Delhi School of Economics - Delhi, Delhi
2010 to 2012

B.A in Economics
Delhi University - Delhi, Delhi
2007

Additional Information

Skill Sets Location: Singapore