Amandeep Singh

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Data Analysis | Business Intelligence | ETL | Financial Reporting

EDUCATION

**Master of Science in Information System	Northeastern University	Boston, MA**	August 2019

Related Coursework- Databases, Data Science, Machine Learning, Data Warehousing, Business Intelligence

Bachelor's in Mechanical Engineering |Rajiv Gandhi Technical university| Bhopal, India	May 2014

TECHNICAL SKILLS

Languages/Databases:	Python, R, PL/SQL, MySQL, Oracle, SQL Server (SSMS), PostgreSQL, HTML
Data Integration/ Analysis:	Talend, Alteryx, SQL Server Integration Services (SSIS), SQL Server Integration Services (SSAS), Azure
Business Intelligence:	Tableau, Power BI, SQL Server Reporting Services (SSRS), Qlik Sense, Microsoft Excel
Libraries:	Numpy, Pandas, Scikit-learn, Matplotlib, Seaborn, Boruta, Boto3
Other Tools:	Bloomberg, OLAP, Findur, Visual Studio, Docker, GitHub, AWS, Jupyter, DAX, SDLC, Macros, JIRA

PROFESSIONAL EXPERIENCE

Business Data Analyst | John Hancock - Boston, MA
May 2018- December 2018

• Designed and developed **ETL** mappings, workflows and performed source analysis for various systems using **SSIS**

• Worked with business stakeholders to create matching criteria's in **python** based Natural rule language which helped to optimize over 60 Reconciliations related to investment products

• Collaborated with IT functional team to setup SFTP servers with counter parties to automate process workflow resulting in both quantitative (1.1 FTE) and qualitative savings (better results)

• Created **Power BI** dashboards & **KPIs** for optimized processes to analyze business performance

• Assists in implementation and deployment by designing various referencing documents including procedures and **BRDs**

Data Analyst | Eclerx Services Ltd – Mumbai, India
July 2015- July 2017

• Analyzed fixed income and derivatives data to identify patterns and developed system rules using regular expressions

• Designed 6 Reference Lookup tables to set new rules for reconciliation which enhanced the productivity and resulted in 17% reduced manual work

• Integrated data from multiple sources using **SQL** and performed analysis by creating interactive **Tableau** dashboards for business users to make data driven decisions

• Developed various reporting templates which reduces processing time by 20% while improving the accuracy, risk, and timing of derivatives settlement

Market Research Analyst | Money World Research Pvt Ltd – Indore, India
July 2014- February 2015

• Cleansed and analyzed NSE historical market data through various forms of research including data mining

• Generated statistical reports for current and historical data which helped research team to perform **trend analysis**

• Presented the complex analysis in understandable documents allowing research team to quickly engage with the findings

ACADEMIC PROJECTS

Retail Datawarehouse (Talend, SSIS, SQL)
February 2019 – April 2019

• Extensively used ETL methodology to create a Retail Datawarehouse from various data sources using SSIS and Talend

• Performed reject analysis and troubleshoot data integration issues and bugs

• Created interactive Power BI & Tableau dashboards which helped in analyzing overall sales and product consumption in different geographic regions

Customer Retention Analysis (Python, Docker, AWS)
February 2018 – April 2018

• Built and analyzed most accurate model among **Logistic regression, Kneighbors, Decision Tree** and **Random Forest** to predict the Customer Churn

• Serialized all the models using **Pickle**, built a pipeline, deployed whole setup using **Docker** and stored in S3

Trade Life Cycle Management System (MySQL)
October 2017 – December 2017

• Engineered ER diagram and implemented techniques like triggers, views, transactions and stored procedures to construct a whole database structure to execute hedging of funds for products like swaps and margins