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| **Brandon JobNexus – Business Analyst & Data Scientist** |

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**Professional Summary**

**Business Analyst & Data Scientist** with strong experience of effectively bridging the gap between IT infrastructure and business operations to facilitate informed decisions with data-driven approaches. I have an innate passion for data and data modelling and would like to join a progressive organisation that will both allow me to apply my existing skills and forge a fulfilling career in data science.

**Key Skills**

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| * Business Analysis * Data Analysis & Data Science * Six Sigma Green Belt * Python/R/SAS/MATLAB | * Material Requirements Planning (MRP) * Process Optimization & Automation * Machine Learning * Lean Manufacturing |

**Key Projects**

* Anomaly detection in a manufacturing process - Advanced Quality Control
* Developed framework to monitor manufacturing by identifying/eliminating out-of-control points.
* Developed control, T2 and m-CUSUM charts to control processes utilizing PCA of large datasets.
* Supply Chain Inventory Management - Production Planning & Control
* Determined annual inventory, safety stock, and distribution costs for existing distribution system.
* Analyzed dynamic correlation coefficients of demand, recommended cost-effective shipping mode with net savings of $131K and break-even in 2.5 years (advanced Excel tools, VBA and Tableau).
* Lean implementation at KD Bottling Company - Lean Thinking & Lean Manufacturing
* Implemented Lean tools (Poka-yoke, 5S, and Kaizen) for better production system performance.

**Career History / Work Experience**

**January 2020 to Date: Texas A&M Transportation Institute: Business Analyst**

* Conducted client interviews, gathered requirements from and served as key point of contact.
* Developed prediction models to perform classification of 15 classes of vehicles based on length, using KNN, Random Forest and Neural Networks algorithms and obtained a precision value of 0.87 with KNN.
* Generated traffic reports (SQL) to get insights on the traffic/pavement conditions of major US roadways.
* Built time-series traffic forecasting model for capacity planning, reduced forecast error/MAPE by 30%.
* Created data pipelines and automated the process of metric analysis, identifying KPIs using Python and VBA, resulting in a reduction of 10-man hours per week.
* Proposed alternative project approach utilizing ML techniques like regression, regularization and ensemble models, resulting in savings of 0.2M per year (20% project expenses).

**January 2019 to January 2020: Texas A&M Transportation Institute: Student Data Analyst**

* Developed interactive dashboards on Power BI using data obtained from traffic sensors for safety measurements, roadway planning and maintenance.
* Identified and recommended process improvements.
* Documented existing procedures for traffic sensors installation.
* Constructed, managed, migrated and maintained business database in MS-Access.
* Performed statistical analysis (hypothesis testing/ANOVA) to validate data using Excel VBA, and R.

**Education & Personal Development**

* Certified Six Sigma Green Belt
* M.S. in Industrial Engineering: Houston University
* B.E. in Mechanical Engineering: Houston University

**Technical Appendix**

* R/Python/SAS/MATLAB/Advanced Excel/Tableau/Power BI/SQL/VBA/Ms-Access/Simio/ SAP ERP

**Personal Details**

* LinkedIn: www.linkedin.com/in/brandonjobnexus