

VIGNESHWARAN GIRI VELUMANI

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♦ Github: github.com/VigneshGV91 ♦ [Tableau Public](#)

EDUCATION

MS in Business Analytics - University of Illinois at Chicago, GPA: 3.71/4.0 08/2018 to 12/2019
Courses: Data Mining, Big Data Analytics, Statistics for Management, Statistical Models & Methods, Advanced Analytics using SAS, Business Data Visualization, Advanced Database Management, Social Media & Network Analysis, Strategy & Policy

MS in Management Information Systems - University of Illinois at Chicago, GPA: 3.71/4.0 08/2017 to 12/2019

Bachelor of Engineering in Electrical & Electronics Engineering - Anna University, Chennai, India 08/2009 to 05/2013

SKILLS & CERTIFICATIONS

Programming: Advance SQL (Window functions), R, Python **Visualization:** Matplotlib, seaborn, ggplot2, plotly

Tools/IDE: Alteryx, VBA **Databases:** MS SQL Server, Oracle SQL, T-SQL, PL/SQL, PostgreSQL

BI Reporting: Business Objects, Tableau, PowerBI, Microsoft Office – Advanced Excel (Pivot Tables, VLookUps)

Algorithms: Regression, Hypothesis Testing, Segmentation, Forecasting, Classification, Clustering, NLP, decision trees, neural nets, Random Forest, Bagging & Boosting, SVM, Principal Component Analysis (PCA), Recommender Systems, Sentiment Mining

Certifications: Tableau Desktop Specialist, Using Python to Access Web Data, Data Visualization using Python, Google Analytics

PROFESSIONAL EXPERIENCE

Analytics Associate III – Presbyterian Healthcare Services (PHS), Chicago, IL (Remote) 08/2020 to Present

- Design, develop & deliver reporting/analytics solutions & statistical expertise for Delivery team to enable better decision making
- Gather customers' requirements from Delivery System including supply chain & finance for developing dashboards & reports
- Act as an analytics consultant & provide ad-hoc reports to business leaders & stakeholders for actionable insights. Perform business analysis and develop metrics, design data flows to ensure integrity & reliability of BI, analytics & database infrastructure
- Serve as a liaison with internal & external stakeholders to conduct strategic analysis, deliver the findings & implement solutions
- Spearheaded completion of **15** Analytics reports for Delivery System customers after swiftly getting up-to-speed with tech stack

Pricing Analyst Intern – Zoro, a W.W. Grainger Company, Chicago, IL 06/2019 to 08/2019

- Analyzed price changes of Amazon using **SQL & R** to estimate the periodic price volatility & their impact on Zoro's revenue
- Performed competitive data QA checks by applying a set of pricing rules to filter SKUs and determine the volatility of **26.4K SKUs**
- Built an **automated detective system** to identify **6200 SKUs** from **2.7M** Zoro SKUs for revising the prices & estimated the revenue

Data Analyst - University of Illinois at Chicago, IL 02/2020 to 08/2020

- Extracted effect size metrics, methods, and adverse events of primary targets in multifaceted trial outcomes of medical studies
- Performed data cleaning, created visualizations & identified value-added features to assist physicians in comprehensive reviews

Data Scientist Capstone Intern – DuPage Medical Group, Chicago, IL 08/2019 to 12/2019

- Explored **claims**, provider & utilization data having **ICD-10**, **CPT codes** & **diagnostic** codes of patients who churned from DuPage
- Aggregated **1M** records of 3rd party data using **SQL & Python**. Explored geographic, demographic, seasonality & modality feature
- Performed **feature engineering**, **Random Forest** variable importance for selection of useful attributes of churn for each patient
- Created Tableau dashboard to visualize KPIs, metrics & key churn factors. Built a **Neural Network churn model** with 90% accuracy
- Provided recommendations to increase patient retention, machine utilization, & revenue, resulting in **12% decrease** in churn

Data Analyst / Senior Systems Engineer – Infosys Limited, Chennai, India 09/2013 to 07/2017

- Assisted AMEX to meet Regulatory Compliance Requirement, using Risk Management platform - LexisNexis Bridger Insight XG
- Developed a workflow management system to monitor screening progress of customer batch files, saving about **40 hours/month**
- Updated and tuned rules in **SQL** to detect fraudulent accounts/transactions & trends in customer data, saving **\$300K** annually
- Improved target marketing by collaborating with the customer acquisition & marketing team for designing new campaigns
- Converted client's liability customers to personal loan customers using **k-NN model** & increased the **conversion rate by 5%**
- Developed monthly **visualization dashboards** and reports for progress tracking & presented of key findings to senior leadership

AWARDS & ACHIEVEMENTS

- Infosys Limited: Recipient of **Insta Award** (2016) & **SPOT Award** (2015 Q3) for outstanding project deliverables