

## Vishnu Satheesh

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### EDUCATION

**MS Business Analytics** – National University of Ireland, Galway | Graduating: Aug 2021  
Data Mining, Probability Models, Applied Statistical Methods, Optimization, Statistical Modeling, Forecasting and Time Series Methods, Big Data Integration, Simulation Modeling, Data Visualization (Tableau)

**PGP Artificial Intelligence and Machine Learning** – University of Texas at Austin | Graduating: Jun 2021  
Python, Applied Statistics, Supervised Learning, Ensemble Techniques, Unsupervised Learning, Featurization, Model Selection & Tuning, Recommendation Systems, Neural Networks and Deep Learning, Computer Vision, NLP

**BTech Industrial Engineering** – College of Engineering Trivandrum, University of Kerala, India | CGPA: 7.9 | Aug 2014- Jun 2018  
Data Analytics, Advanced Operations Research, Applied Statistics, Supply Chain Management, Project Management

### WORK EXPERIENCE

Jul 2018– Aug 2020

**Chainalytics** - A leader in supply chain consulting, analytics and market intelligence

**Data Analyst:** Freight Market Intelligence Consortium team

- **Market Research and Segmentation:** Implemented projects involving benchmarking of European and Russian TL (Full Truckload and Less Truckload) transportation rates for shipper companies by developing an OLS Regression model to identify specific characteristics influencing total freight cost in the release of semi-annual benchmarking models.
- **Advanced Analytics, Automation and Reporting:** Incorporated technologies that integrate machine learning into transaction-level data flows, ensuring quality control, analytical sophistication and repeatability. Worked on the data-validation and analysis, to convert the raw data to a constraint-governed mathematical model. Constituted as an integral part of the process automation team that brought down the time requirement for data cleaning and modelling process from 20 hours to 3 hours.
- **Tools:** Python, Microsoft SQL, Tableau, SPSS, MS Excel, MS Access.

**PROJECTS** (GitHub: <https://github.com/vishn96/> Tableau: <https://public.tableau.com/profile/vishnu.satheesh1214>)

- **Heart Disease Prediction (Kaggle Competition):** Identified the most relevant/risk factors of heart disease and predicted the overall risk using classification algorithms.  
*Skills and Algorithms:* Data Visualization, Logistic Regression, Support Vector Machine, Decision Tree, Random Forest, AdaBoost
- **Credit Card Fraud Detection (Kaggle Competition):** Anonymous credit card transactions labeled as fraudulent or genuine.  
*Skills and Algorithms:* Data Visualization, Logistic Regression
- **Predictive Analytics and Crowd Management Model for Railway Station:** (Undergraduate project) Predicted the peak hours for proper crowd management. A comprehensive study on the crowd behavior and the passenger demand in a railway station was made and a framework for a generalized behavioral model on the basis of crowd behavior, availability of possible routes and available time for the evacuation planning and decision making to reduce possible number of casualties during emergency scenarios was developed.  
*Skills and Algorithms:* Data Visualization, K-Mean Clustering
- **Parkinson's disease (PD) diagnosis using Ensemble Techniques:** Classified the patients into the respective labels using the attributes from voice recordings.  
*Skills and Algorithms:* Data Visualization, Logistic Regression, Gaussian Naive Bayes, Support Vector Machine, K-Nearest Neighbors, Decision Tree, Bagging, Boosting
- **US Census data Case Study:** A comprehensive study to determine factors for low/high income class amongst adult population in the US and predicting income class based on attributes using multiple classification algorithms.  
*Skills and Algorithms:* Data Visualization, Random Forest
- **Tableau Dashboards:** 9 Dashboards spread across diverse topics. Active participant in *MakeOver Monday* visualization.

### SKILLS

- **Machine Learning and Statistical Techniques:** Generalized linear models, Tree-based models, SVM, Naïve Bayes, Clustering, Feature Engineering, Hypothesis & A/B Testing
- **Data Extraction / Visualization:** MySQL, Microsoft SQL, Tableau, Python (matplotlib, seaborn), MS Excel, MS Access
- **Programming:** Python, C++
- **Frameworks / Libraries:** Pandas, Numpy, Scipy, SPSS

### CERTIFICATIONS

- Tableau Desktop Specialist
- IBM Data Science Professional
- Machine Learning by Stanford University on Coursera
- Business Analytics by University of Pennsylvania on Coursera
- Project Management Principles and Practices by University of California, Irvine on Coursera
- Supply Chain Management by Rutgers State University on Coursera
- Managing Big Data with MySQL by Duke University on Coursera

### HONORS & ACTIVITIES

- Recipient of Central Sector Scheme Scholarship awarded by Ministry of Human Resource Development, Government of India.
- Chairman of the Indian Institute of Industrial Engineering, College of Engineering Trivandrum Chapter (Jun 2017- Jun 2018).