Vishnu Satheesh

Website | LinkedIn | +31 686463688 | vishnusatheesh1996@gmail.com | Amsterdam, Netherlands

EDUCATION

Master of Science in Business Analytics – National University of Ireland, Galway | 1.1 Honors | Sep 2020 - Jul 2021
Data Mining, Probability Models, Applied Statistical Methods, Statistical Modeling, Database Systems, Big Data Integration, Decision Theory, Data Visualization (Tableau)

Post Graduate Program in AI & Machine Learning- University of Texas at Austin | CGPA: 3.9/4 | Jun 2020 - 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

Bachelor of Technology in Industrial Engineering –University of Kerala, India | CGPA: 3.2/4 | Aug 2014 - Jun 2018
Data Analytics, Advanced Operations Research, Applied Statistics, Supply Chain Management, Project Management

EXPERIENCE

o9 Solutions – An Augmented Intelligence (AI) platform that transforms planning and decision-making capabilities across the digital supply chain Aug 2021 - Present

Solution Consultant – AI/ML: *Service Delivery Team* ***Amsterdam, Netherlands***

- **Analytics and Machine Learning**: Identified and collected data, such as historical sales, inventory, and other operations/supply chain data from different sources. Used mathematical models (predictive and statistical methods) and simulations to analyze and manipulate large data sets to provide business insights to customers.
- **Consulting**: Worked closely with Solution Architects and Data Scientists to develop functional and technical solution designs. Configured the o9 solution as per the design to solve deep supply chain problems and institute rigorous performance monitoring systems. Planned, developed, and delivered Super User and End User training, for a global user base.
- **Tools:** Python, SQL, R, MS Excel

Chainalytics - A leader in supply chain consulting, analytics, and market intelligence Jul 2018– Aug 2020

Data Analyst: *Freight Market Intelligence Consortium team* ***Bangalore, India***

- **Market Segmentation**: Managed a range of tasks including selecting features, optimizing classifiers, improving data collection techniques, and processing data of 50+ shipper companies.
- **Market Research:** Implemented projects involving semi-annual benchmarking of European and Russian TL (Full Truckload and Less Truckload) transportation rates for shipper companies by developing Regression models to identify specific characteristics influencing total freight cost.
- **Advanced Analytics, Automation and Reporting**: Incorporated technologies that integrate machine learning into the transaction-level data flows. Worked on the data validation and analysis, to convert the raw data to a constraint-governed mathematical model and helped clients reduce 15% of supply chain costs.
- **Process Automation:** Constituted as an integral part of the process automation team that brought down the time required for the data cleaning and modeling process from 20 hours to 3 hours.
- **Tools:** Python, SQL, Tableau, SPSS, MS Excel, MS Access.

SKILLS

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

HONORS & ACTIVITIES

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

PROJECTS *(Github)*

- **Street View Housing Number Digit Recognition:** Recognized multi-digit numbers in photographs captured at street level and implemented image classification pipeline using deep neural network. Pre-processed 600 thousand images from google street house number images and defined the model architecture using TensorFlow.
- **Parkinson's Disease (PD) diagnosis using Ensemble Techniques:** Classified the patients into the respective labels using the attributes from voice recordings to diagnose Parkinson's Disease. Applied Machine learning algorithms including ensemble techniques such as bagging, boosting and Random Forest algorithms to the voice recording dataset to accurately diagnosis PD.
- **Predictive Analytics and Crowd Management Model for Railway Station (Undergraduate project):** Developed a forecasting model based on passenger demand in a railway station to help Indian Railways plan the development activities including crowd management. Built forecast model using ARIMA (Auto Regressive Integrated Moving Average) model and received an accuracy of 85%.
- **Amazon Electronics Recommendation Systems:** After exploratory data analysis and data wrangling, built Popularity recommender model and Collaborative Filtering and recommends five new products based on popularity and other metrics on e-commerce websites like user's history.
- **Vehicle Classification by Silhouette using PCA:** Classified a given silhouette as one of three types of vehicles using a set of features extracted from the silhouette by training model using principal components.
- **Jane Street Market Prediction (Kaggle Competition):** Implemented machine learning model to identify profitable opportunities and quickly decide whether to execute trades.
- **Tableau Dashboards:** Created Dashboards spread across diverse topics. Active participant in MakeOver Monday visualization competition Tableau Public

PUBLICATIONS *(Medium)*

Content Writer (Analytics Vidhya- A community of Analytics and Data Science professionals with over 33,000 followers**)**

- **Machine Learning Algorithms (Series):** A detailed three article series on the most popular machine learning algorithms Logistic Regression, Naïve Bayes Classifier, KNN Classifier and Support Vector Machines.
- **Building Image Classifier using Keras and TensorFlow:** A comprehensive study of developing an image classifier using deep neural networks in Keras and TensorFlow.
- **Hyper Parameter Tuning (GridSearchCV Vs RandomizedSearchCV):** Discussed the implementation and working of the two popular hyper parameter tuning methods GridSearchCV Vs RandomizedSearchCV.
- **The Math Behind Monty Hall Problem:** Discussed the famous game and interpreted the influence of probability in the decision-making process.

CERTIFICATIONS

- Microsoft Certified Azure Data Scientist Associate
- Tableau Desktop Specialist
- IBM Data Science Professional
- Alteryx Designer Core
- 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
- Managing Big Data with MySQL by Duke University on Coursera