Arvind Narayanan

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SUMMARY

Aspiring Industrial Engineering Graduate Student at UIC offering robust qualifications in Operations Research Algorithms, Data Science and Machine Learning Techniques using Python, and MATLAB, along with the expertise in SPSS and Minitab. Eager to Contribute, learn and create a positive Impact in the Job with my previous Experiences in Projects and as Intern in the Domain of Data Science, Supply Chain and Process Automation at various Reputed Companies.

EDUCATION

The University of Illinois at Chicago August 2021 - Present
M.S., Industrial Engineering GPA: 3.66
Vellore Institute of Technology, Chennai, India July 2016 – June 2020
B.tech., Mechanical Engineering

TECHNICAL SKILLS

Software: Advanced Microsoft Excel (Pivot tables, VLOOKUP), Minitab, MATLAB, Arena, LINDO, IBM SPSS.
Programming Language: Python, SQL.
Tools and Packages: NumPy, Pandas, Matplotlib, Seaborn, SciKit-learn.

EXPERIENCE

Kyungshin Industrial Motherson Private Limited (KIML), Chennai, India

INTERN - Process Automation December 2019- April 2020

- Conceptualized a Low-cost Automation device using Solidworks, and PLC Programming.
- Assisted the Production Engineering department in the Design and partial development of the Gum seal insertion machine to remove the bottlenecks of production line by analyzing Human Ergonomics and efficiency of the production lines.

Royal Enfield Private Limited, India

SUMMER INTERN (Quality Assurance Dept.) April 2018- May 2018

- Obtained insights on the Implementation and Execution of a Motorcycle Production plant which includes Vehicle Assembly, Engine Assembly, Machine shop along with the exposure to the administrative works like Pre-Production planning.

Earthquake Magnitude Classification and prediction using Python -UIC, Chicago Fall 2021

- Developed an efficient Classification Model for Classifying Earthquakes over a period using Supervised Models like KNN, Logistic Regression and Ensemble models such as Decision Trees and AdaBoost.
- Effectively improved the accuracy of the model by using Machine Learning Techniques such as Data Cleaning, Feature Selection using Python and Jupyter Notebook.

Analysis of product flow through a Cashier counter in a Supermarket – UIC, Chicago Fall 2021

- Analyzed the product flow in a system of a cashier counter by designing a Discrete Event Simulation model using Arena Software.
- Data from real-word observation is Mathematically designed into an input distribution model and the Outputs are validated using Chi-squaretest and K-S Test.

Bionic Bumper Beam designing and its Additive Manufacturing – VIT, Chennai

- Investigated, Designed and 3D-printed a Honeycomb Structured Bumper beam to improve its crashworthiness performance, Bionic structure like Honeycomb is implied and studied.

Analysis of the Smart- phone Industry – VIT, Chennai

- Forecasted the Demand, Completed the Rapid upper limb assessment (RULA) and Rapid entire body assessment (REBA) analyses and proposed an optimized plant layout using ALDEP (Automated Layout Design Program) using MS Excel.

ACCOMPLISHMENTS

- **PRESIDENT, Aerospace club- VIT, Chennai, India** August 2018 - July 2019
- **AERODYNAMIC ENGINEER, Team Aviators International -VIT, Chennai, India** August 2017 - August 2019
- **FINANCE EXECUTIVE, Enactus Club, VIT, Chennai, India** April 2017 - March 2018
- **Model United Nations - VITNESS Leadership Summit 2018.**
  Delegation- Kenya, Committee – UNHRC on the discussions on the Safety of the Human-aid workers in critical warzone and the freedom of Journalists at the same.