Shubham Jain

shubhamj@andrew.cmu.edu | 412-915-3982 | https://www.linkedin.com/in/shubham07-jain | https://jainshubham.me

EDUCATION

Carnegie Mellon University, Pittsburgh, PA   **08/2020 – 05/2022**
Master of Information Systems Management
Courses: Object Oriented Programming in Java, Data Mining and Business Intelligence SAS, Database Management, Economic
Analysis, Unstructured Data Analytics, Data Focused Python, NoSQL Management, Statistics for IT Managers.
- GPA: 3.3/4.00

Vellore Institute of Technology, Vellore, India   **07/2014 – 05/2018**
Bachelor of Technology in Computer Science
Courses: Data Structures and Algorithms, Object Oriented Programming, Agent Based Intelligent Systems, Soft Computing
- GPA: 3.92/4.00

SKILLS

Languages and Databases: Python (Programming, Numpy, Pandas, Matplotlib), C, C++, MySQL, Oracle 11g
Machine Learning: Classification, Regression, Decision Trees, Random Forest
Scripting: PowerShell, Perl
Tools, Technologies, Concepts: GIT, MDT, TFS, SAS Enterprise Miner, Tableau
Framework: Flask, WinForms

WORK EXPERIENCE

Philips HealthCare Systems, Bengaluru, India   **07/2018– 05/2020**
Software Engineer - Magnetic Resonance (MR) Department
- Migrated the windows operating system's bios type from **'Legacy' to a more secure type 'UEFI'**, also ensuring smooth back and forth movement during the upgrades and downgrades of a software release version.
- Provided a **cost-effective solution** by upgrading the MR backup and restore tool integrated with **'Acronis'** to using Microsoft's native backup restore tool **'Wbadmin'** to perform the volume level backup using **WPF framework**.
- Developed applications and structured scripts that customize different aspects of operating system and basic Windows UI elements conforming to MR specific requirements.

Philips HealthCare Systems, Bengaluru, India   **01/2018– 06/2018**
Software Development Intern - Magnetic Resonance (MR) Department
- Designed and developed automation suite for windows operating system deployment with complete MR SW configuration on different hardware platforms, reducing the turnaround time from **14man days to 4 hours**.
- Implemented and managed to improve the code quality metric of **MR Codebase from 'E' to 'A'** without hampering the code flow.

ACADEMIC PROJECTS   **GitHub:** https://github.com/shubham070696

Instacart Customer Order Forecasting (Python, SAS, Tableau)   **09/2020 – 10/2020**
- Analyzed **8M rows** of data of an existing ecommerce grocery store using **Tableau** and bucketed the **most relevant features for pre-processing** using **Python** to infer the customers buying habits.
- Developed a predictive model in **python** predict the customers' next order items, with an **accuracy of 88.5%.**
- Implemented **market basket analysis technique using SAS** to identify associations between products and provide recommendations to customers on his next visit.

Predicting the Status of H-1B Visa Applications (Python)   **06/2020**
- Performed EDA and cleaned approximately **3M rows** of data and developed classification models to predict if the H-1B petition filed will be accepted or rejected using **Python**.
- Implemented **Naïve Bayes, Logistic Regression and Random Forest algorithms** to predict H-1B acceptance/reject and analyzed their performances using the **ROC-AUC** curve.

Flight Price Prediction (Python, Flask)   **06/2020**
- Performed **one-hot encoding and label encoding** for all the categorical features and retrieved meaningful insights from processed data by carrying out exploratory data analysis in **Python**
- Developed and **hyper-parameter tuned an extra tree regressor** model to predict the flight fares for a particular route.

Analysis of Hotel Booking (Python)   **05/2020**
- Developed a **Random Forest classification model using Python** to help the hotels/resorts understand the potential factors responsible for a cancellation of a booking and achieved an accuracy of **89.2%**

ACHIEVEMENTS

Team Up to Win Award, Philips Culture Awards, Philips Healthcare Systems   **04/2019**
Student Head - Institution of Electronics and Telecommunication Engineers (IETE-VIT)   **05/2017 - 04/2018**