

# KHUSHALI DAGA

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## EDUCATION

### CARNEGIE MELLON UNIVERSITY, HEINZ COLLEGE

Master of Information Systems Management - Business Intelligence and Data Analytics

Coursework: Unstructured Data Analytics, Data focused Python, OOPs Java, Statistics for IT Manager

Pittsburgh, PA

12/2024

### VISHWAKARMA INSTITUTE OF TECHNOLOGY

Bachelor of Technology in Computer Science

GPA: 3.87

Pune, India

07/2022

## SKILLS & CERTIFICATIONS

**[Programming & Frameworks]:** Python, Java, HTML, Spring Boot, REST APIs, Azure Services, Django, C++, SQL, NoSQL, ReactJS

**[Business Software]:** Tableau, IntelliJ, Visual Studio, Postman, Spyder, Jupyter, Arduino

**[Technical Skills]:** Amazon Web Services, GitHub, Big Data Analytics, Data Visualization, Database Management, Machine Learning, Matplotlib, Pandas, Regression Analysis, Clustering, Data Manipulation, Web Development

**[Certifications]:** Basic Data Processing and Visualization (Coursera, UC San Diego), Machine Learning (Coursera, Stanford University), Introduction to Statistics (Coursera, Stanford University), MongoDB Basics (MongoDB)

## WORK EXPERIENCE

### DAGA POLYPACK PVT. LTD., India

Marketing and Production Manager (Part-time)

Jodhpur, India

01/2021 – 07/2023

- **[Business Analysis]:** Formulated a model using Python and PostgreSQL to analyze costing charts and predict future data, decreasing overall cost by 6%
- **[Web Development]:** Built company website from scratch, collaborating with development team, resulting in a dynamic online presence.
- **[Marketing & Strategy]:** Strategically created and implemented mail campaigns, resulting in 4% sales increase
- **[Process Automation]:** Automated marketing email campaigns through one click bot solution using Python, reducing manual efforts by 80%
- **[Resource Management]:** Managed production to make efficient use of raw materials and recycle waste to cut costs by 5%
- **[Quality Control & Assurance]:** Oversaw Quality Control, involving gauging the strength, stretchability, and GSM of factory-made bag ensuring consistent production of high-quality products

### FIVETREES TECHNOLOGIES, India

Software Developer

Bangalore, India

05/2021 – 06/2023

- **[Project Management]:** Led solution process plan to integrate REST APIs for Visitor and Attendance Management Systems to digitalize the process
- **[SQL Proficiency]:** Designed and executed complex queries in SQL to retrieve and manipulate data for reporting purposes
- **[Cloud Integration]:** Incorporated APIs using azure services to improve storage, reliability and scalability of application and services to reduce workload by 50%
- **[Back-end]:** Integrated Google Calendar Add-on for visitor management system with end-to-end APIs using Google App Scripts
- **[Database Migration]:** Single-handedly migrated database from MySQL to PostgreSQL to improve storage and extensibility

## PROJECTS

### [Deep Learning]: Robust Adversarial Training for Detecting Adversarial Samples

03/2021

- Detected poisoned datasets caused by attacks such as "white box attack", "black box attack", "FGSM", etc. resulting in an accuracy of ~96%
- Trained the model on a mix of adversarial generated images and normal images from MNIST dataset with an epsilon of 0.15-0.3

### [DeFi, Blockchain]: Arbitrage Using Flash Loans

12/2020

- Developed a model to generate profit from Circular Arbitrage on Decentralized exchanges with less chances of losing funds
- Obtained a flash loan and used the 0x API as well as the funds from the flash loans to trade it for cryptocurrency. Used 1inch to find the best price to sell at and kept the profit achieving larger profits than cyclic arbitrage

### [C++]: Flight Reservation System

01/2021

- Built a project in C++ to book a seat, revise personal details or cancel the reservation of a passenger & updated flight details
- Enhanced data privacy by implementing secure passenger login, restricting authorized access to reservation details and modifications.

## LEADERSHIP & ACTIVITIES

VIT Dance Team **Head**; VIT Football Team **Vice Captain**

01/2022 – 06/2022

Volunteered in computer literacy program for senior citizens

02/2020 – 02/2020