# **MADHUMITHA MURALI**

+1 515-815-4056 | madhumitha.murali8@gmail.com |645 Stonehaven Drive, Ames, Iowa 50010

https://www.linkedin.com/in/madhumitha8 | https://madhumitha8.github.io

#### **EDUCATION**

# **Master of Science in Information Systems**

Aug 2022 – Present

Iowa State University, Ames, Iowa, United States; CGPA: 3.67

**Bachelor of Engineering in Computer Engineering** 

SIES Graduate School of Technology, India

May 2019

### **SKILLS**

IT skills: SQL, T-SQL, Python (Beginner)

Tools: Informatica PowerCenter, MS Office Suite, Excel Solver, PowerBI (Beginner), Tableau (Beginner)

#### PROFESSIONAL EXPERIENCE

## **Graduate Teaching Assistant**

August 2022 - Dec 2022

Iowa State University, Ames, IA

- TA for COM S 113: Introduction to Spreadsheets and Databases
- Taught students to use Microsoft Excel spreadsheets and Microsoft Access databases to input, store, process, manipulate, query, and analyze data for business and industrial applications

### **Senior Data Engineer**

Larsen and Toubro Infotech, India

Sept 2019 - July 2022

- Designed various ETL processes that read, filter, transform, and migrate large volumes of raw data from multiple data sources into a warehouse using Informatica PowerCenter
- Enhanced Informatica mappings and handled databases using SQL queries and identified strategies to improve data reliability, efficiency, and quality
- Tested, analyzed, created procedures and validated data in SQL Server Management Studio and presented to Analytics teams for resolving business problems
- Gathered requirements, built data models and ETL pipelines for clients
- Collaborated with team leads, clients, developers, analysts, and managers and created analytical solutions
- Planned and executed activities to promote SQL, MS Excel, and Informatica PowerCenter development
- Honored with an 'Outstanding (Top Performer)' rating in workplace for two consecutive years

# Intern, Nuclear Power Corporation of India Limited, India

**June - July 2018** 

Created a standard data validation library for the organization using JavaScript for various web applications

#### **ACADEMIC PROJECTS**

### **Excel Solver**

• Used Excel Solver to decide how many tables to produce/store at each quarter to meet the demand at the minimum total production and inventory holding cost

# Predictive Maintenance of Heavy Commercial Vehicles Using ML and Data Analytics

Sep 2019 - Nov 2019

- Front-end UI development of a website using raw data from client
- Predicted the probability of Heavy Commercial Vehicles breakdown using FUZZY algorithm thereby improving the efficiency of maintenance of the vehicles

## Title: Health and Fitness website (Mini project)

• Front-end UI development of a website that focused on wellness using HTML, CSS, JavaScript, and Bootstrap

## **PUBLICATION**

Predictive Maintenance of Heavy Commercial Vehicles Using ML and Data Analytics' in the coveted journal 'International Journal of Information and Computing Science' in April 2019 | Link: <a href="http://ijics.com/gallery/116-april-1076.pdf">http://ijics.com/gallery/116-april-1076.pdf</a>