

# Rohit Pillalamarri

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## CAREER PROFILE

Motivated computer science master's student with experience in Python programming and SQL database management seeking a role in software development. Skilled in MATLAB, Visual Studio, Jupyter Notebook, and MS SQL. Passionate about leveraging data to create innovative solutions.

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## EDUCATION

*Cleveland State University | Cleveland, Ohio*  
**Master of Computer Science**

**2021 - 2023**

*Amrita School of Engineering | Bangalore, India*

**Bachelor of Technology: Electronics and Communication Engineering**

**2016 - 2020**

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## TECHNICAL SKILLS

**Programming Languages:** Python | C | MATLAB | Java | Dart

**Software:** Visual Studio | Jupyter Notebook | VMware Workstation | Tableau

**Database Languages:** Oracle SQL | SQL Server

**Big Data Tools:** PySpark

**Hardware:** Raspberry Pi | Arduino Uno R3

**IoT Technologies:** Node-RED

**Operating Systems:** Windows | Linux (Ubuntu)

**Cloud Services:** AWS: Lambda | EC2

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## ACADEMIC PROJECTS

### FOOD PANTRY MANAGEMENT SYSTEM

Fall 2022

**Tech Stack:** SQL Server, T-SQL (Transact-SQL), SSMS (SQL Server Management Studio)

- Designed and implemented a SQL Server database to manage the distribution of free groceries to university students, including tables for student information, check-in records, and weight management.
- Utilized SQL querying and data manipulation techniques to effectively manage and track the inventory of the food pantry, allowing for accurate tracking of food usage and student participation.
- Generated test data using online tools such as Mockaroo to simulate real-world scenarios.

### SENTIMENT ANALYSIS OF IMDB DATASET

Fall 2022

**Tech Stack:** Python, Jupyter Notebook, NLTK (Natural Language Toolkit), Scikit-learn

- Utilized the IMDB dataset to perform sentiment analysis of user reviews, comparing multiple classifiers to determine the one with the highest accuracy.
- Employed Python programming language to implement the sentiment analysis algorithms and manipulate the dataset, using Jupyter notebook as the development environment.
- Conducted extensive testing and analysis of the classifiers and their results, providing valuable insights into the effectiveness of different approaches for sentiment analysis.

## SQL HANDS-ON PROJECT ON THE SPORT FORMULA

Summer 2022

**Tech Stack:**Oracle SQL, Oracle SQL Developer

- Independently developed and implemented an Oracle SQL project on the sport of Formula 1, manually collecting and organizing data from reliable sources such as f1.com and fia.com.
- Demonstrated expertise in SQL querying and data manipulation techniques to extract, organize, and store data related to Formula 1, including race results, driver statistics, and team performance.
- Designed and optimized the project solo, utilizing Oracle's SQL development tools to streamline data processing and analysis, and developing effective queries to extract insights from the data.

## COLOR IMAGE SEGMENTATION OF FUNDUS BLOOD VESSELS FOR DETECTION OF HYPERTENSIVE RETINOPATHY

Dec 2018 - May 2019

**Tech Stack:**MATLAB (Image Processing Toolbox)

- Developed and tested a prototype computerized method for identifying and segmenting blood vessels from fundus images using Matlab.
- Worked collaboratively with a team of peers to design and refine an automated diagnosis approach leveraging Matlab's image processing capabilities.
- Conducted extensive research and experimentation using Matlab to identify the most effective techniques for color-based segmentation of blood vessels from fundus images.

## INTERNSHIP EXPERIENCE

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**Technical Internship Trainee | SMEC LABS | BANGALORE,INDIA**

Summer 2019

- Acquired practical knowledge and skills in a wide range of technologies, including C Programming, Arduino, GSM, GPS Technology, Gas Sensor, and IoT in Node-RED, through intensive hands-on training sessions.
- Successfully integrated hardware components with software applications, demonstrating the ability to design, build, and program embedded systems for real-world applications.
- Demonstrated problem-solving abilities by actively participating in projects related to the development of innovative solutions, emphasizing the practical application of technical knowledge gained during the internship.

## EMPLOYMENT EXPERIENCE

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**FOOD PANTRY ASSISTANT, LIFT UP VIKES, CSU.**

Jan 2022 - May 2023

- Assisted clients in selecting food items and provided guidance on available resources.
- Stocked shelves and ensured that the pantry was clean and organized at all times and managed the inventory levels.
- Developed strong communication and customer service skills by interacting with a diverse range of clients.

## CERTIFICATIONS

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- IOT BASED SCADA USING RASPBERRY PI & PYTHON