

Rohit Pillalamarri

Dublin, CA, 94568 | 216.303.0724 | rohitp1817@outlook.com

LinkedIn: www.linkedin.com/in/rohitpillalamarri18

Github: www.github.com/rohit1817

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.

EDUCATION

Cleveland State University | Cleveland, Ohio

2021 - 2023

Master of Computer Science

Amrita School of Engineering | Bangalore, India

2016 - 2020

Bachelor of Technology: Electronics and Communication Engineering

TECHNICAL SKILLS

Programming Languages: Python | C | MATLAB | Java | Scala

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)

PERSONAL PROJECTS

LIBRARY MANAGEMENT SYSTEM

Tech Stack: SQL Server, Google Colab, T-SQL

- Designed tables and procedures for seamless, single-person library operation management.
- Executed data preprocessing using pandas; future plan includes GUI enhancement.
- Developed intricate SQL procedures for book availability and member checkout.

SPOTIFY SONGS ANALYSIS

Tech Stack: SQL, Python, IPython Notebook

- Conducted comprehensive data cleaning and SQL query execution for Top Spotify Songs 2023 dataset.
- Developed diverse SQL queries, showcasing proficiency in database operations and data analysis.
- Project includes future plans for optimization and handling varied datasets, reflecting continuous learning and improvement.

ACADEMIC PROJECTS

FOOD PANTRY MANAGEMENT SYSTEM

SPRING 2023

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 1

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

SPRING 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

IoT with Python Internship Trainee | ISM | BANGALORE, INDIA

Summer 2018

- As an IoT with Python Trainee, actively engaged in learning and applying Python programming for IoT projects, contributing to the design and implementation of connected systems and solutions.
- Collaborated with team members to gain hands-on experience in developing and optimizing IoT applications.

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

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

- IoT-based Scada using Raspberry Pi & Python | ISM
- Level Up: SQL | LinkedIn Learning
- Nano Tips for Acing Your SQL Interview with Nick Singh | LinkedIn Learning
- Python Object-Oriented Programming | LinkedIn Learning
- Tableau Essential Training | NASBA and LinkedIn Learning (In Progress)