

# CHARUMATHI MUNUSWAMY

## DATA ANALYST

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## SUMMARY

With over 9 years of experience in IT Industry in which 2.5 years as data analyst, I am a proficient data professional adept in SQL, PostgreSQL, as well as Python's data manipulation libraries NumPy and Pandas. My expertise in Extracting, Transforming, and Loading (ETL) data ensures streamlined information flow in intricate projects. Employing visualization tools like Matplotlib, Seaborn, Tableau, Power BI, and Excel, I bring effective communication and analytical insights to cross-functional teams, optimizing workflows and enriching decision-making. I am dedicated to delivering valuable outcomes through a data-driven and innovative approach.

## PROFESSIONAL EXPERIENCE

### DATA ANALYST

April 2021 - Present

#### Project 2 : Multilingual Database Translation and Automation

- Enable language translation and rephrasing, Integrated external APIs, including Rapid AI paraphrase and the Microsoft Azure Translator API.
- Upgraded and optimized a MySQL database with 85 tables to improve data storage and retrieval efficiency.
- Utilized Python for scripting and automation, reducing manual efforts and enhancing overall project efficiency.
- Conducted comprehensive data quality assessments to ensure the accuracy and integrity of translated data, while effectively addressing any issues that arose.
- Established a comprehensive data backup and version control system, encompassing data export/import procedures and leveraging GitHub for program code backup. This proactive approach was taken to safeguard against potential data loss and errors, ensuring data and code integrity throughout the project.
- Successfully rephrased and translated English content into Hindi, Japanese, and Spanish, contributing to the project's global reach.
- Designed and maintained a detailed project timeline and tracking system in Microsoft Azure DevOps to monitor the progress of individual tables and translation tasks.
- Collaborated closely with linguistic experts and language specialists to ensure that translated content maintained cultural and contextual relevance.
- Conducted thorough data validation and testing to verify the effectiveness of the translation process.
- Implemented security measures to protect sensitive database information and API keys, adhering to best practices for data security.

#### Project 1: Multi Signature Wallet transaction

- Played a key role in enhancing cryptocurrency security by analyzing multi-signature crypto wallet transactions.
- Collaborated with cross-functional teams to understand business requirements and developed test plans.
- Conducted thorough testing of multi-signature wallet transactions, identifying and reporting bugs using Postman, Github.
- Leveraged Python and data analysis skills to ensure the correct execution of multi-signature transactions.
- Provided data-driven insights into transaction behavior and contributed to process improvement.

### Validation Engineer

April 2013 - July 2013

### Test Engineer

April 2007 - Feb' 2013

### FREELANCER

Singapore

### WELCOME REAL TIME

Singapore

### MOTOROLA MOBILITY

Chennai, India



## EDUCATION

- **B.Tech in Electronics and Communication Engineering**  
Dr.MGR Educational and Research Institute University, Chennai, India.
- **DIEE - Diploma in Industrial Electronics and Communication Engineering**, DOTE, Chennai, India.

## TECHNICAL SKILLS

- SQL
- Python(Numpy, Pandas, Matplotlib, Seaborn)
- Swagger/Postman
- Github
- Selenium
- Manual/Automation Testing
- Tableau/PowerBI
- MS Office

## CERTIFICATIONS

- **Python Essentials 1**  
@ Cisco Networking Academy
- **Data Analytics Essentials**  
@ Cisco Networking Academy
- **Data Science**  
@ Cisco Networking Academy
- **Data Visualization With Power BI**  
@ Great Learning Academy
- **Oracle SQL Certified Associate**

## LANGUAGES

- **English**  
Full Professional Proficiency
- **Tamil**  
Native or Bilingual Proficiency
- **Telugu**  
Speak