# Venkata Rathna Nishanth Dangethi

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## EXPERIENCE SUMMARY

**Data Analyst and PL/SQL Developer** with 2 years of professional experience in PL/SQL, SQL, and Tableau. Proficient in designing and developing efficient database solutions, optimizing query performance, and creating visually appealing data visualizations using Tableau

## EDUCATION

**University of North Carolina at Charlotte (UNCC)**                                                                                                    **Charlotte, NC**
*Master of Science in Computer Science*                                    Cumulative GPA: **3.87/4.0**                            December 2023
**Amrita School of Engineering**                                                                                                                          **Bengaluru, India**
*Bachelor of Technology in Electronics and Communication Engineering*          Cumulative GPA: **8.1/10**                  June 2020

## TECHNICAL SKILLS

**Languages:** Python, C, SQL, PL/SQL, R, NoSQL
**Cloud Technologies:** AWS S3, IAM, EC2, Amazon QuickSight, Athena, AWS Glue, Amazon Redshift, Amazon SageMaker
**Data Visualization Tools:** Tableau, Power BI, Excel
**Databases:** MySQL, PostgreSQL, Oracle, MongoDB, Amazon RDS
**Machine Learning:** NumPy, Pandas, Seaborn, Matplotlib, Scikit-Learn, k-NN, SVM, Random Forest, Decision Trees, K-Means Clustering
**Other Skills and Tools:** Toad, JIRA, Data Structures, Microsoft Office, Git, Snowflake

## WORK EXPERIENCE

**University of North Carolina at Charlotte - Graduate Teaching Assistant**                        **August 2023 - December 2023**

- Collaborated closely with the course instructor to facilitate a dynamic and interactive learning environment for graduate students in the **Intelligent Systems** course. Demonstrated strong communication skills by leading discussions, conducting review sessions, and providing individualized assistance during **over 60 office hours** during each semester
- Evaluated **over 500 student assignments**, exams, and projects, adhering to established grading rubrics and deadlines. Worked in partnership with the instructor to recognize patterns in student comprehension and challenging areas, guiding adaptations in instruction for upcoming lessons

**Infosys Ltd - Data Analyst**                                                                                                            **November 2020 - July 2022**

- Analyzed complex data sets using statistical and data analysis techniques to identify trends, patterns, and insights
- Performed in-depth exploratory data analysis to uncover novel possibilities, and furnished suggestions for improving both operational effectiveness and overall business outcomes
- Engaged in collaborative efforts with subject matter experts to comprehensively grasp business requirements, subsequently transforming them into actionable data analysis tasks
- Used **Tableau** to create interactive and compelling visual representations of data which tracks **20+ KPIs**
- Collaborated with cross-functional teams to provide data-driven insights and support decision-making processes
- Conducted in-depth root cause analysis for production issues and successfully addressed **over 300 defects**. Utilized automated SQL queries to analyze logs, resulting in a notable enhancement of the team's issue resolution efficiency by approximately **20%**
- Developed and debugged **PL/SQL** code using **TOAD**, resulting in optimized performance and efficient data processing of large volumes of data, consisting of **over 10 million records**

**Electronics Corporation of India Ltd (ECIL) – Data Analyst Intern**                                        **May 2018 - July 2018**

- Led a Predictive Maintenance initiative to enhance electronic system reliability and efficiency through data analytics and machine learning, enabling maintenance and cost reduction
- Utilized regression, decision trees, and random forests in developing machine learning models to predict potential system failures, achieving an **85% accuracy** rate on test data
- The models achieved an **88% precision rate**, coupled with a substantial **recall rate of 80%** when predicting failures

## PROJECTS

**Data Analysis of Rock Fracture Patterns from Acoustic Emissions Using AWS**

- Devised a research solution and executed extensive big data analysis on AWS, centering on authentic research data concerning the fracturing energy of rocks across diverse weather and temperature patterns.
- Employed various AWS tools for data collection, storage, preparation, processing, and analysis of large datasets, utilizing services such as Amazon S3, AWS Glue, and AWS SageMaker.
- Used AWS QuickSight, to visualize results and extract valuable insights, contributing to scientific research.

**Airbnb Trends in New York City using Tableau**

- Performed thorough data analysis utilizing Tableau for Airbnb listings in New York City, delving into pricing patterns, neighborhood preferences, and guest reviews exploration. Created interactive Tableau dashboards that facilitate dynamic exploration of insights for prospective hosts and travelers.
- Presented findings on popular neighborhoods, property types, and the impact of Super host status, demonstrating proficiency in data cleaning, exploratory analysis, and visualization techniques.