

## VINAYA RAJARAM NAYAK

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### EDUCATION

**University of South Florida**, Tampa, FL, United States  
Master of Science in Business Analytics and Information Systems

**Aug 2022 – Dec 2023**  
**GPA: 4.0/4.0**

**The National Institute of Engineering**, Mysuru, India  
Bachelor of Engineering in Information Science and Engineering

**Aug 2014 – Aug 2018**  
**GPA: 3.7/4.0**

### TECHNICAL SKILLS

- **Scripting Languages:** Python, R, SQL, Java, Unix. | **Certifications:** AWS solutions architect associate
- **Database & Big Data Framework:** Oracle RDBMS, MongoDB, MySQL, AWS Redshift, Big Query, Hadoop, Spark, TensorFlow, Spark SQL, Hive, HBase, HDFS, Cassandra, Impala
- **Visualization Tools:** Azure ML, Tableau, Power BI, Matplotlib, Pandas, NumPy, Seaborn
- **Miscellaneous:** JIRA, GIT, Excel spreadsheets, Postman, SNOW, REST API's, Power query, Machine learning, statistics

### WORK EXPERIENCE

#### Data Analyst Graduate Assistant

**Sept 2022 - Present**

*Office of Decision Support, University of South Florida | Tampa, FL*

- Designed and remodeled dashboards to make it more interactive, **insightful, and easy on eyes** to track the progress of more than 80,000 students across 3 campuses and 15 colleges using **Power BI, MS Excel**.
- Managed **ad-hoc reporting and data requests** to drive the student success decisions and facilitate university reporting.

#### Application Development Analyst

**July 2018- July 2022**

*Accenture Solutions Pvt Ltd | Bangalore, India*

- Developed **dashboards** using **Power BI** to represent key insights for incoming incidents, resulting in data driven actions that improved the business by 45%.
- Acquired and cleaned Walmart **inventory and sales dataset** from various countries, using SQL, MS Excel which enabled various patterns to be derived from the data.
- Implemented **microservice architecture** on a healthcare application resulting in increased performance up to 60%. Leveraged drools validations, spring boot and sql to achieve the same.
- Performed SQL query performance tuning by creating and modifying the **indexes, removing unnecessary columns in the inner views**, and adding conditions to get only the required data that improved efficiency by 40%.
- Improved data quality by developing **automated scripts to cleanse and transform data**, reducing manual effort by 75%.
- Worked on API **management and provisioning** using AKANA tool ensuring security, reliability, and availability of APIs.
- Developed **dashboards** using **Tableau** for accurate reporting to leadership that showed business impact of the bookings with and without promotional or premium offers improving decision making by 35%.

### ACADEMIC PROJECTS

#### Sentimental Analysis on Customer Reviews

- Tools: SAS Enterprise Miner, Azure ML, python, Tableau
- Identified future sales statistics for Amazon customers with over 80% accuracy by utilizing predictive analysis modeling, neural networks, and decision trees.

#### Food insecurity visualization dashboard

- Tools: Tableau, Oracle SQL Developer
- Developed a data dashboard that provides state-wise statistics about food insecurity and a variety of related risk factors in the United States and helps policymakers develop targeted interventions.

#### Covid-19 Analysis Data Pipeline

- Tools: python, AWS S3, Redshift, Athena, PostgreSQL, Power BI
- Built an end-to-end architecture and performed analysis of the COVID-19 data in the US and loaded it into a centralized data warehouse.

#### Employee Retention System

- Tools: MS SQL Server, Power BI
- Performed data selection, extraction, cleaning, and exploratory data analysis using different techniques on the employee data sets to predict and develop a system that enhances a company's employee retention rate.

### LEADERSHIP AND INVOLVEMENT

- Moderator at **All About the Data** community.
- Provided **training and knowledge transfer** to new team members, educating them on the team's responsibilities and serving as a mentor throughout their tenure.
- Earned **"Employee of the Month Award"** – for exceeding expectations and commitment to deliverables.
- Member of **"Gift the Needy"** initiative, which was started for people's welfare.