

# VINAY REDDY VERAMAREDDY

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Results-driven Data Analyst with 3+ years of experience in data analysis, visualization, and modeling using SQL, Python, Tableau, and Power BI. Skilled in big data frameworks (Hadoop, Hive, Cassandra) and cloud technologies (AWS, Azure). Specializes in healthcare analytics both Medicare and Medicaid claims, using SAS and ArcGIS for trend analysis. Proficient in strategic planning and stakeholder communication within Agile environments.

## EXPERIENCE

### Data Analyst

State of Montana, Helena

Jan 2024 – Present

- Developed forecasting models to predict trends in Medicare and Medicaid reimbursement along with enrollment for a population of over 1.13M, improving resource management and healthcare delivery using SAS, Tableau.
- Built statistical models to uncover actionable insights, leveraging ETL pipelines and tools like Snowflake, SQL, ArcGIS and Tableau for seamless data integration and analysis.
- Collaborated with cross-functional teams to develop health metrics dashboards, consolidating KPIs and improving organizational alignment with strategic goals.

### Data Engineer

Volantsoft, Dallas, TX

Jun 2022 – Jan 2024

- Conducted exploratory data analysis on large datasets using Python and Jupyter Notebook, generating valuable insights.
- Designed and implemented Power BI scorecards and dashboards with advanced visualization by using Azure Data Migration and Cleansing rules with Git management.
- Design and train deep learning models using frameworks like TensorFlow, PyTorch, Keras to uncover actionable insights.

### Data Engineer

Slesha, Irving, TX

Mar 2022 – Jun 2022

- Developed and optimized ETL workflows using Informatica and Talend for seamless data acquisition and transformation.
- Contributed to the design and implementation of a Data Lake using the AWS Big Data ecosystem and Hadoop frameworks.
- Applied Spark, Pandas to query and analyze datasets stored in HDFS, MongoDB, Cassandra, Snowflake.

### Software Engineer (Intern)

TLC, Hyderabad, TG, India

Jan 2019 – Mar 2019

- Designed and implemented ETL pipelines using SSIS, improving data processing efficiency by 40% ensuring smooth data flow between systems.
- Automated supply chain reporting using Power BI and MySQL, reducing report generation time by 50%.
- Utilized Cassandra NoSQL databases to manage large-scale data storage and retrieval, using Tensorflow to build models.

## Additional EXPERIENCE

### Graduate Research Assistant

TAMUC, Commerce, TX

Aug 2020 – Sep 2021

- Integrated the Capon algorithm with the ROOT MUSIC algorithm, resulting in a 75% reduction in complexity and a 45% improvement in signal processing precision using Python and MATLAB, optimizing computational efficiency and execution time.
- Applied the Real Hermitian Symmetric Toeplitz algorithm with No Decomposition to significantly reduce computational load by 36% while increasing accuracy from 74% to 89%.

## CERTIFICATIONS

- Microsoft Certified: Power BI Data Analyst Associate
- Rest API (Intermediate)
- SQL (Advanced)
- Tableau 2022
- Big Data Hadoop and Spark Developer
- Data Engineering Nano degree
- Tableau Essential Training
- Snowflake Hands-On Essentials - Data Warehouse
- Introduction to Indexing and Aggregation in MongoDB
- Python for Data Science and AI
- PG Diploma on the Embedded System and IoT

## SKILLS SUMMARY

**Data Analyst and Data Scientist Skills:** Machine Learning, Scikit-learn, Statistical Modeling, Tensorflow, Keras, Predictive Analytics, PyTorch, Data Mining, Data Wrangling, Data Transformation

**Languages:** SQL, Python, Spark, Scala, SAS, C++, R

**Visualization:** Tableau, Power BI, ArcGIS

**Databases:** Oracle, PostgreSQL, MongoDB, Snowflake, Cassandra

**ETL and Data Warehousing:** SSIS, Data Marts, Business Intelligence

**Tools:** Git, GitHub, Terraform, Jenkins, Tasktop

**Big Data:** HDFS, Hive, Airflow, PySpark, Kafka

**Cloud Technologies:** AWS (S3, EC2, Athena, Crawler), Azure (Data Factory, Data Lakes, Azure DevOps)

**Methodologies:** Agile, SDLC

**Technical Skills:** MS Excel, MS Word, Data Migration, Data Cleansing

**Healthcare Analytics:** Medicare, Medicaid Claims Analysis

**Soft Skills:** Data Accuracy, Problem-Solving, Cross-team Collaboration

## EDUCATION

- PhD in Data Science**, University Of Cumberlands, Present
- Master of Science in Computer Science**, Texas A&M University, December 2021
- Bachelor of Engineering**, Sri Indu College of Engineering & Technology, June 2019

## PUBLICATIONS

- “Propagator Rooting Method Direction of Arrival Estimation Based on Real Data”, *MILCOM* 2021
- “Capon Root-MUSIC-like Direction of Arrival Estimation Based on Real Data”, *VTC* 2021