

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 Research Analyst

State of Montana, Helena

Jan 2024 – Feb 2025

- 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 statistics models to uncover actionable insights, leveraging ETL pipelines and tools like Snowflake, SAS, SQL, ArcGIS for geospatial analysis and Tableau for data visualization.
- Collaborated with cross-functional teams to develop health metrics data strategy, dashboards, consolidating KPIs and improving organizational alignment with strategic goals from various databases.

Data Engineer

Volantsoft, Dallas, TX

Jun 2022 – Jan 2024

- Conducted exploratory data analysis on databases and data ingestion using Python and Jupyter Notebook, generating valuable insights.
- Designed and fine-tuned transformer-based models for advanced AI applications, focusing on prompt engineering and decision making.
- Worked with Python, PyTorch, Java, and Apache Spark, Kubernetes using ML models by using mathematics techniques and data pipelines.
- Designed and implemented Power BI scorecards and dashboards using Azure Data Migration and Cleansing rules with Git management.

Data Engineer

Slesha, Irving, TX

Mar 2022 – Jun 2022

- Developed and optimized ETL workflows using Informatica and Talend for seamless cloud computing, 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.
- Design and train deep learning models using frameworks like TensorFlow, PyTorch, Keras to uncover actionable insights by data storytelling.

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 Linux systems by using organizational skills.
- Automated supply chain reporting using Power BI, Java 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)
- Big Data Hadoop and Spark Developer
- Data Engineering Nano degree
- Tableau 2022
- 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, Java, Apache Spark, 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, Kubernetes

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 IT, 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