

# VAMSI KRISHNA

## DATA ANALYTICS ENGINEER

+1 8162864595 | Vamsi.ks1111@gmail.com | Omaha, NE

### SUMMARY

- 4+ years of industrial working experience focused on business intelligence, big data analysis, data mining, statistical inference, A/B testing, machine learning, data visualization, and ETL data pipelines.
- Solid working experience with SQL, including MySQL and MSSQL Server. Strongly skilled in writing stored procedures, triggers, and complex queries containing multiple joins, subqueries, and window functions to create reports and perform analysis.
- Solid experience working with cloud platforms such as AWS and Google Cloud.
- Experience working with Shell Scripting in operating systems such as Linux and version-control tools such as Git.
- Detail-oriented and self-starter with strong communications skills, presenting results of analysis to both technical and nontechnical audiences, and experience collaborating within cross-functional teams.
- Worked on creating dashboards in Power BI and Tableau for reporting and data visualization, and guided business decision-making for multiple stakeholders.
- Worked on developing Python scripts for the whole data science project life cycle, including data acquisition, data cleaning, data exploration, and data modeling using libraries such as Pandas and Skilearn.
- Proficient in database development, performance optimization, data governance, and data security.
- Experience building and interpreting machine learning models, including Linear Regression, Logistic Regression, Random Forest, Xgboost, K-means, KNN, and Neural Network.
- Expertise in database development, including schema design, normalization, indexing, and query optimization.
- Experience working with NOSQL databases and big data tools, including Hadoop, Hive, and Spark.
- Automated complex HR data extraction processes leveraging Workday Report-as-a-Service (RaaS) functionality for seamless integration with external platforms.
- Built ETL pipelines to extract, transform, and load into analytical databases, scheduled and automated pipelines using Apache Airflow.
- Having advanced proficiency in Microsoft technologies and database management.
- Strong knowledge of software development principles and experience in integrating databases with applications using best practices.
- Worked on designing, developing, and tracking Key Performance Indicators (KPI) and creating dashboards to monitor them.
- Experience translating business requirements into technical requirements and enabling decision-making by retrieving and aggregating data from multiple sources.
- Strong time management skills to manage work plans, handle tight deadlines, and multiple projects.

### TECHNICAL SKILLS

- **Languages:** Python, R, SQL, Bash
- **Packages:** NumPy, Pandas, Matplotlib, SciPy, ggplot2, Seaborn, PyTorch, TensorFlow, Sklearn, Keras, XGBoost
- **ETL & Cloud:** AWS(EC2, S3, RedShift, EMR), Google Cloud (Big Query, Kubernetes), SSIS, Azure.
- **Software IDEs:** Visual Studio Code, Jupyter Notebook.
- **Visualization Tools:** Tableau, Power BI, Excel, Alteryx
- **Database:** MySQL, MSSQL, MongoDB, Postgres SQL, Cassandra
- **Other Skills:** Data Cleaning, Data Wrangling, Regression, Trends, Clustering, Random Forest, Decision Tree, Data Warehousing, Data Mapping, Data Modeling.
- **Tools:** Hadoop, Hive, Apache Airflow, Apache Spark, Flask, Apache Kafka, Jupyter Notebook, Jira, Git, Docker, Kubernetes.
- **Operating Systems:** Windows, Linux, MacOS
- **HR Analytics:** Workday
- **Automation:** Power Automate, Office scripts, VBA, Macros.

### PROFESSIONAL EXPERIENCE

#### Data Analytics & Automation (Kyndryl - IBM, Omaha, NE)

Apr. 2023 – Present

##### Responsibilities:

- Automated recurring Business analytics reports and reduced manual processing time by 60%.
- Developed robust Python-based automation scripts using Pandas, NumPy, and OpenPyXL to streamline HR data workflows and eliminate repetitive tasks.
- Developed and implemented Office Scripts in Excel to automate repetitive data processing tasks, reducing manual effort by up to 90% and improving turnaround time.
- Integrated Office Scripts with Power Automate to trigger workflows, enabling seamless data refresh, report generation, and file distribution.
- Designed and implemented ETL pipelines to extract data from Workday, spreadsheets, and SQL databases for seamless integration into Power BI dashboards.
- Integrated manual input sources into Workforce Solutions dashboards, enabling improved semantic modeling and data flow efficiency.
- Supported People Analytics process automation by building logic-based tools to standardize reporting and maintain compliance with internal frameworks.
- Created interactive Power BI dashboards to visualize HR KPIs, TA metrics, and financial insights for monthly business reviews.
- Developed SQL queries and stored procedures to manage and retrieve workforce and financial data across multiple HRIS and relational databases.
- Collaborated with cross-functional teams to automate IT, Finance, and HR reporting pipelines, contributing to faster decision-making and improved operational efficiency.

- Ingested and transformed large volumes of structured/unstructured data from Azure Blob Storage into Synapse using serverless SQL pools and external tables.
- Automated repetitive team tasks, reducing manual data entry efforts from 5 hours per week to under 5 minutes per month, significantly increasing team productivity and accuracy.
- Designed and implemented automated email alert workflows using Power Automate, dynamically pulling insights from Power BI datasets to notify stakeholders of key business metrics and anomalies.
- Enabled business continuity by automating repetitive reporting tasks, reducing manual effort by 70% and improving data accuracy and delivery timelines.
- Utilized APIs and Python scripting to integrate third-party data sources into IT, Finance, HR analytics workflows.
- Worked with R to generate automated statistical reports and narratives for executive stakeholders.
- Leveraged RPA tools (UiPath, Power Automate) to automate repetitive data entry and validation tasks, reducing human error by 80%.

***Data Analytics Engineer (Eastern Nebraska Human Services Organization – DUET, Omaha, NE)***

***Nov. 2023 – Mar. 2025***

**Responsibilities:**

- Utilized NumPy, Pandas, Matplotlib, Scikit-Learn, and TensorFlow in Python to perform data cleaning and feature scaling.
- Combined Electronic Health Care Records data with other healthcare data sources to conduct multi-dimensional analysis, improving patient care and operational efficiency.
- Implemented data integration solutions using Informatica Data Integration, enabling seamless data flow between disparate systems and enhancing data accessibility for reporting and analysis.
- Developed and maintained advanced Workday Custom Reports (Advanced, Matrix, Trending, and Composite) to support business operations, HR analytics, and compliance reporting needs.
- Advised on best practices for data structuring within EMR systems to facilitate comprehensive reporting and analytics.
- Collaborate with business stakeholders to analyze data requirements and implement a scalable data model, leading to a 30% increase in data processing efficiency, supporting the company's rapid growth.
- Experience working with EHR data and handling healthcare data interoperability using HL7 and CCD standards. This includes data extraction, transformation, validation, and reporting from EMR systems.
- Designed, developed, and integrated RESTful APIs to facilitate seamless data exchange between applications and third-party services.
- Utilize AWS Cloud platform components, including EC2, VPC, RDS, EBS, S3, CloudWatch, CloudTrail, CloudFormation, and Autoscaling to manage and process data effectively.
- Designing SSIS Packages in SQL Server to handle data migration (ETL Processes) from the transaction system to the dimensional model.
- Implemented authentication mechanisms like OAuth 2.0, JWT, and API key-based security for secure API access.
- Developed and deployed machine learning models to improve system performance and efficiency.
- Implemented data validation and security protocols to ensure data integrity.
- Conducted code reviews and implemented best practices for data quality and maintainability.
- Utilized SQL and NoSQL databases for data storage and retrieval, ensuring optimal performance.
- Participated in sprint planning, daily stand-ups, and retrospective meetings for effective project delivery.

***Data Analyst (Wells Fargo, India)***

***Jan. 2021 – Dec. 2021***

**Responsibilities:**

- Formulated SQL Queries to extract complex data from various remote databases through proficient utilization of joins, and database links,
- Monitored the performance of the Snowflake platform and implemented performance tuning strategies, optimizing SQL queries and troubleshooting performance issues, resulting in a 30% improvement in query performance and enhanced user experience.
- Performed Data Analysis on the analytical data present in AWS S3, Redshift, Snowflake, and Teradata using SQL, Python, and Databricks.
- Leveraged the ggplot2 library in R for data analysis, creating data visualizations that provided valuable insights into customer behaviors.
- Utilized Power BI to craft a range of analytical dashboards that swiftly delivered crucial data insights to business users.
- Employee Informatica Data Quality tools to cleanse, validate, and standardize data, improving overall data quality and reliability for downstream applications.
- Developed and integrated Snowflake APIs to enable seamless data ingestion, transformation, and retrieval from external applications.
- Conducted performance tuning of MSSQL databases by optimizing indexes, restructuring queries, and implementing best practices, resulting in a 30% reduction in query execution times.
- Engineered and automated data pipelines to extract and transform customer data, resulting in a 50% reduction in data processing time and an 18% enhancement in data accuracy.
- Conducted data profiling and validation to ensure data accuracy between the warehouse and source systems.
- Addressed data issues, including missing values, outliers, and discrepancies, effectively resolving them by 95%.
- Implemented an ETL process in Alteryx, enabling data extraction

**Responsibilities:**

- Worked on monitoring statistics of email delivery and optimize email efficiency to increase customer engagement.
- Analyzed result of A/B tests to find better time of email delivery for different topics using R.
- Managed data migration projects involving MSSQL, successfully integrating legacy systems with modern applications and ensuring data accuracy and integrity throughout the process.
- Set up automated systems used Excel VBA to pull the data smoothly into Tableau platform to create reports and dashboards.
- Collected data from internal sources using MySQL and performed data cleaning and aggregation for reporting and further analysis.
- Manipulated data and calculated key metric for reporting using MySQL queries (window function, subqueries) and MS Excel
- Visualized data from MySQL and MS Excel using Tableau Dashboard to monitor email performance. connected to MySQL database using R package MySQL and retrieving data for statistical analysis and visualization.
- Performed exploratory data analysis (EDA) to find insight such as difference efficiency among different devices using ggplot in R.
- Used Google Docs, Google sheet and Google Slide to collaborate writing data and code documentation and reporting insights to the manager.

## **CERTIFICATIONS**

---

- Data Analytics Masters- From Basic to Advance
- Microsoft Power BI for Business Intelligence
- SQL – Basic to Advanced

## **ACADEMIC PROJECT**

---

**Movie Recommendation System Using Movie Lens 20M Dataset**

Build a movie recommendation system using the Movie Lens 20M dataset to predict user preferences based on historical ratings. Implement collaborative filtering techniques to provide personalized movie suggestions.

## **EDUCATION**

---

**Master of Science in Computer Science (GPA: 3.50)**

**Jan. 2022 – May. 2023**

University of Missouri – Kansas City, Kansas City, MO, USA