**VISHAL VALLAPU**

940-758-4780 |[Email](mailto:vishalvallapu@gmail.com) |[Linkedin](https://www.linkedin.com/in/vishal-vallapu-1a6632b6?lipi=urn%3Ali%3Apage%3Ad_flagship3_profile_view_base_contact_details%3BzKnMK8EAQUO78%2BknJ8%2FuKA%3D%3D) | [GitHub](https://github.com/VishalVallapu) | [Portfolio](https://vishalvallapu.github.io/)

# SUMMARY

# Data enthusiast with around 4 years of experience in data processing, analysis and visualization. Proficient in Python, SQL, Tableau, Power BI, with a strong background in machine learning and big data technologies. Aiming to leverage analytical skills and technical expertise to drive data-driven decision making. I am a promising team player who believes in continuous growth and learning

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# EDUCATION

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| University of North Texas *- Masters in Science, Advanced Data Analytics* | Aug 2022 - Dec 2023 |
| Jawaharlal Nehru Technological University - *Bachelors in Technology - Computer Science* | Aug 2014 - May 2018 |
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# WORK EXPERIENCE

**Zonestra Technologies** Dec 23- Present

*Software Engineer*

* Built a robust data ingestion system using Python and Cloud Functions to fetch data from APIs, CSVs, and databases, reducing manual data handling .
* Implemented SQL queries and data transformations to correct missing data, handle duplicates, and create KPIs such as sales growth and churn rate, leading to a 20% increase in reporting accuracy.
* Scheduled daily and weekly reports on sales performance, inventory management, and customer behavior, cutting the report preparation time by 75%.
* Developed user-friendly dashboards that empowered stakeholders to make data-driven decisions, contributing to a 10% improvement in inventory turnover rate.

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| Ministry of Railways, Government of India (contract) |  |
| *Software Engineer* | Jul 2020 - Jul 2022 |

* Developed and implemented data pipelines to stream continuous data from sensors, ensuring real-time data collection and processing.
* Analyzed sensor data to predict wear and tear of machinery, improving maintenance scheduling and reducing downtime by 20%.
* Designed and scheduled data processing workflows to handle large volumes of streaming data efficiently.
* Stored processed data in a relational database, ensuring data integrity and accessibility for analysis.
* Created Power BI dashboards to visualize data insights, enabling stakeholders to make informed decisions.
* Collaborated with cross-functional teams to ensure seamless integration of the predictive maintenance system with existing infrastructure.

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| Winfocus Solutions Pvt ltd |  |
| *Data Analyst* | Oct 2018 - Jul 2022 |

* Worked on the data processing of the SLAM (Software for Locomotive Asset Management) project which improved locomotive shed operations.
* Developed relational database solutions using SQL, improving data processing efficiency.
* Collected raw data from sheds, converted it into template forms, and loaded it into local servers, achieving a high data accuracy rate.
* Automated web services using provided API documentation, reducing manual intervention.
* Identified gaps in received files and generated reports, leading to a reduction in data inconsistencies by 25%.
* Leveraged data analysis to drive business decisions and improve operational efficiency.
* Identified and resolved data gaps and inconsistencies, ensuring data integrity.
* Worked closely with various teams, including client representatives and end-users, to ensure successful project implementation.

# SKILLS & CERTIFICATIONS

**SKILLS:**

* **Programming and Query Languages:** Python, Spark,Java, PySpark, Scikit, ML, Deep Learning (DL) and Natural LanguageProcessing(NLP),MachineLearning,(Supervised-Regression,Classification,Unsupervised-Clustering,Dimensionality Reduction)
* **Databases:** MS Access,MySQL, SQL Developer, NoSQL(MongoDB, Dynamo DB,Cosmos DB).
* **Data Modelling:**  Dimensional Modelling,Star schema,snowflake schema,Relational data modelling, Data Vault,Data warehouse methodologies:Kimball,Inmon
* **Cloud Technologies and Tools:** Microsoft Azure Cloud, Amazon Web services AWS, Google cloud platform GCP.
* **Visualization, Analytics and Big Data Tools:** Tableau, Microsoft Power BI, MS Excel, Hadoop, Spark, Amazon EMR, AWS Lakeformation,Redshift,Kinesis,AWS Glue,Apache Kafka,Quicksight,Athena,Open Search service, matplotlib,seaborn,SSIS ,SSRS, SSMS,Airflow,Rapid miner, Nifi, Git.
* **Soft Skills:** Critical thinking, attention to detail, adaptability, and a strong work ethic. Highly organized with the ability to manage projects efficiently and meet deadlines consistently, Communication, Team player, Leadership, Time-Management, Willingness to learn and adapt to any new environment/tool.

**CERTIFICATIONS:**

* Certified by **IBM** inCE-Essentials of Big data with Hadoop.
* Certified by **Udemy**
  + SQL-MySQL for Data Analytics and Business Intelligence. Python for Data Science and Machine Learning Bootcamp.
* Certifications by **AWS** 
  + Fundamentals of Analytics on AWS ,Amazon EMR ,Amazon Kinesis , Data Analyst Quest Essentials on AWS , Planning on large data migration to AWS
* Certifications by **Google** 
  + Introduction to Generative AI , Large Language Model ,Responsible AI by Google

**VIRTUAL INTERSHIPS**

* Virtual Internship by **PWC in Power BI**(Analyzing Customer behavior, Customer Analytics, Customer Churn analysis)
* Completed a job simulation where I strengthened my PowerBI skills to better understand clients and their data visualization needs.
* Demonstrated expertise in data visualization through the creation of Power BI dashboards that effectively conveyed KPIs, showcasing the ability to respond to client requests with well-designed solutions.
* Leveraged analytical problem-solving skills to examine HR data, particularly focusing on gender-related KPIs, and identified root causes for gender balance issues at the executive management level, highlighting a commitment to data-driven decision-making.
* Virtual Internship by **British airways in Data Science**(Web scraping and customer behavior analysis using machine learning models)
* Virtual **Internship** by **Accenture in Data Analytics and Visualization**(Data preprocessing,analysis and visualization)

# PROJECTS - <https://github.com/VishalVallapu>

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| Baggage Handling Optimization for American Airlines |  |

* Aimed to address the challenges faced by an airline company with a shortage of personnel and equipment in its BHS.

Predicted and analyzed the number of baggage items that will arrive for any given outbound flight in Python.

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| Netflix Data Analysis | - |

* Created an interactive dashboard using Netflix dataset, analyzing top genres, descriptions, duration, release year, and various other variables in Tableau.

**Smart Contract in solidity**

* Wrote a smart contract in Solidity using Remix IDE, Truffle-Ganache to mint coins, check balance, send and receive coins.