**Vishalakshi R Padakandla**

**Data Science**

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Summary

Motivated data science student with a strong foundation in Python, R, SQL, and analytical problem-solving. Skilled in data manipulation, cleaning, visualization, and statistical modeling using tools like Pandas, NumPy, ggplot2, Tableau, and Power BI. Experienced in applying machine learning techniques to build predictive models and deliver actionable insights. Brings a business-oriented approach to data, with the ability to support decision-making through clear analysis, storytelling, and collaboration.

Skills

**Programming Languages:** Python, SQL, R, C, Java

**Data Manipulation & Cleaning:** Pandas, NumPy, dplyr, tidyr, Excel – applied in extracting, cleaning, and transforming data from multiple sources.

**Data Analysis & Machine Learning:** Foundational understanding of regression analysis, predictive modeling, and statistical modeling techniques, with exposure to business-oriented data analysis through Data Science for Business.

**Data Visualization & Reporting:** Proficient in Matplotlib, Seaborn, ggplot2, Tableau, and Power BI to effectively communicate trends and insights.

**Problem-Solving & Analytical Thinking:** Strong ability to identify patterns in operational, sensor, and market data to drive business strategy and decision-making.

**Communication & Collaboration:** Experienced in teamwork, presenting findings, and translating data insights into actionable recommendations for stakeholders.

**Time Management & Adaptability:** Capable of managing multiple analytical tasks efficiently while learning and adapting to new technologies.

**Education**

**Master of Science (M.S.), Data Science** – Eastern University, Saint Davids, PA **|** January 2024 – August 2025 **| Current GPA** – **4.0 Bachelor of Technology (B.Tech), Computer Science and Engineering** – Bhoj Reddy Engineering College for Women – Hyderabad, Telangana, India **|** September 2004 – May 2008 **| GPA** – **3.1**

**Certification**

**GOOGLE DATA ANALYTICS CERTIFICATE** <https://www.credly.com/badges/755cc3c4-31b8-43e4-9c91-04189e9a6647/public_url>

**Projects**

**Student Performance Prediction- *Machine Learning Academic Project*** (February 2025)

* Built a regression model to predict final outcomes using machine learning techniques.
* Applied Linear Regression, SVM Regression, and Lasso Regression, comparing model performance with and without key features.
* Utilized 3-fold cross-validation and evaluated models using RMSE to ensure accuracy and reliability.
* Engineered and preprocessed features, including handling missing values and transforming categorical variables.
* Visualized data insights using Seaborn and Matplotlib to identify feature relationships and patterns.
* Demonstrated improved model performance with the inclusion of relevant features, enhancing predictive accuracy.

**Movie Correlation Project- *Python Personal Project*** (October 2024)

* Conducted a comprehensive analysis in Python to examine the relationship between budget and gross earnings for films.
* Cleaned and preprocessed the dataset to ensure data quality.
* Performed visual exploration using scatterplots and Seaborn to confirm a strong linear correlation between budget and gross earnings.
* Conducted a detailed correlation analysis of numeric columns to highlight significant associations.
* Provided insights into factors influencing movie performance.

**Behavioral Risk Factor Surveillance System- *R Academic Project*** (September 2024)

* Cleaned and preprocessed large datasets to effectively address research.
* Utilized R for data manipulation and statistical analysis.
* Developed regression models to examine health-related behavioral risk factors.
* Interpreted model summaries to derive meaningful insights.
* Demonstrated skills in statistical analysis, data wrangling, and clear communication of findings.

**Regional Sales Dashboard and Storyboard- *Tableau Academic Project*** (August 2024)

* Designed and developed an interactive dashboard and storyboard in Tableau.
* Visualized key aspects of sales data, identifying trends and insights.
* Analyzed sales metrics to support data-driven decision-making.
* Applied dynamic, visually appealing dashboards for effective storytelling.
* Demonstrated proficiency in data visualization and creating user-friendly analytics tools.

**Data Professional Survey Breakdown Dashboard- *Power BI Personal Project*** (July 2023)

* Created a Power BI dashboard to explore and present key findings from a Data Professional Survey.
* Visualized trends such as average salaries by job, skillsets, ease in landing jobs, and countries of respondents.
* Leveraged interactive visuals and filters for detailed exploration of survey results.
* Provided clear and actionable insights through dynamic visualizations.

**Netflix Dashboard- *Tableau Personal Project*** (July 2023)

* Developed an interactive Netflix Dashboard in Tableau.
* Analyzed and visualized key metrics such as genre popularity, user ratings, and content trends.
* Applied data visualization best practices to transform raw data into actionable insights.
* Enhanced storytelling and decision-making capabilities through clear visual presentation.

**Ashville AirBnB Dashboard- *Tableau Personal Project*** (June 2023)

* Developed a Tableau dashboard to analyze and visualize key trends in the Asheville Airbnb dataset.
* Focused on insights related to pricing, number of bedrooms, and monthly revenues.
* Applied data visualization best practices to present actionable insights.
* Improved decision-making and storytelling with dynamic, interactive visuals.

**Bike Sales Dashboard- Excel Personal Project** (April 2023)

* Designed and developed a dynamic Bike Sales Dashboard in Excel.
* Showcased customer demographics and purchasing patterns.
* Cleaned and prepared the dataset using advanced Excel functions.
* Created PivotTables and charts for in-depth analysis.
* Applied data visualization techniques to deliver a comprehensive and user-friendly dashboard.

**Work Experience**

**QA ENGINEER – Megasoft Ltd. – Hyderabad, Telangana, India** March 2009 - July 2010

**Hospital Management and Information Systems** (September 2009 – July 2010)

* Led manual testing efforts to validate system reliability and functionality across modules such as administration, clinical management, HR, finance, pharmacy, and asset management.
* Developed and executed in-depth test scenarios to assess system performance and usability.
* Carefully recorded test results and monitored defects for efficient tracking and resolution.
* Collaborated with developers to validate bug fixes and conducted structured code reviews to uphold quality standards.
* Ensured seamless system performance by maintaining thorough documentation and issue tracking.

**Library Management Systems** (March 2009 – September 2009)

* Conducted thorough manual testing to assess the reliability and efficiency of key functionalities, including membership management, book cataloging, and loan transactions.
* Designed and implemented detailed test plans to identify and address potential system issues.
* Meticulously logged defects and worked with developers to ensure prompt resolution, enhancing system stability.
* Reviewed bug fixes and performed compliance-driven code inspections to maintain software quality.
* Contributed to the overall effectiveness and accuracy of the library management system by maintaining high testing standards.

**PROJECT TRAINEE, Megasoft Ltd. – Hyderabad, Telangana, India** September 2008 – March 2009

* Collaborated with cross-functional teams to collect and compile data from multiple sources for project analysis and reporting.
* Conducted detailed data analysis to identify trends, patterns, and insights that supported decision-making processes.
* Prepared comprehensive strategic reports with actionable recommendations to optimize business operations and project outcomes.
* Gained hands on experience in data management, reporting techniques, and effectively communicating findings to enhance team collaboration.