

# 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](https://www.credly.com/badges/755cc3c4-31b8-43e4-9c91-04189e9a6647/public_url)

## Projects

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

- Built regression models (Linear, SVM, Lasso) to predict student outcomes.
- Used 3-fold cross-validation and RMSE for performance evaluation.
- Engineered features and visualized relationships using Seaborn and Matplotlib.

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

- Conducted EDA to examine the relationship between budget and gross earnings.
- Cleaned and visualized data using Pandas and Seaborn to identify trends.
- Highlighted significant numeric correlations affecting box office results.

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

- Analyzed health data using R for regression modeling and risk assessment.
- Applied data wrangling, modeling, and interpretation to derive insights.

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

- Created an interactive Tableau dashboard to visualize regional sales performance.
- Presented key sales trends to support business decision-making.

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

- Built a Power BI dashboard to visualize job roles, skillsets, and salary trends.
- Enabled data-driven exploration using filters, drill-downs, and interactive visuals.

## Work Experience

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### 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.