Vyshnavi Manubolu

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Professional Summary

- A hard-working and dynamic graduate skilled in intuitive problem-solving, multitasking, and prioritizing tasks to achieve project goals.
- Detail-oriented and motivated recent graduate with a strong foundation in data analysis and data science, gained through coursework and hands-on projects. Proficient in statistical analysis, data visualization, and data manipulation with a solid understanding of Power BI from practical IT experience..
- Proficient in providing client and end-user support, including hardware and software application troubleshooting. Skilled in ensuring optimal performance and user satisfaction through effective support strategies and problem-solving.

Education

Missouri State University **Jan 2023 - Dec 2024**

Master's in Computer Science *GPA: 3.97*

- Applied statistics: Proficient in data interpretation, normal distribution, random sampling, hypothesis testing,Z-tests, ANOVA (Analysis of Variance), two-sample tests and basics of R programming
- Data Science: Data Wrangling, Model Error Analysis, Data Cleaning, Exploratory Data Analysis (EDA), Classification Algorithms, Regression Analysis, Data Visualization, Big Data Technologies (Basics of Hadoop, Spark)
- Machine Learning: Supervised, Unsupervised Learning, Reinforcement Learning, Genetic Algorithms

Sri Venkateswara University College of Engineering **Aug 2016 - Sept 2020**

Bachelor of Technology in Electrical and Electronics Engineering *GPA: 3.68*

Experience

Missouri State University **May 2023 - Dec 2024**

Graduate Assistant at ResNet *Springfield, MO, USA*

- Successfully migrated an existing Power BI report from Oracle to SQL Server, configuring the database and updating all related code. Rebuilt and optimized reports on residence life student data, providing insights into occupancy, gender ratios, room utilization, and student movements.
- Conducted in-depth analysis of residence life data, including annual dropout rates and computer lab requirements per hall. Designed and implemented intuitive data visualizations using Power BI, such as pie charts, bar graphs, and trend lines, to facilitate decision-making for housing management.
- Implemented automatic scheduled refreshes in Power BI, ensuring data accuracy and up-to-date reporting. Leveraged Power Query and basic DAX expressions to streamline data transformation.
- Delivered hardware and software support for 3,000+ students and 150+ staff, resolving 40+ technical issues weekly, including networking, mobile devices, and laptops. Documented troubleshooting steps and managed support requests efficiently.
- Managed computer labs in 10 residential buildings, ensuring functionality. Supervised 10 student employees, led 30+ tech projects, and enhanced ResNet operations through collaboration and effective team leadership.

Tata Consulatncy Services, Client: Ernst & Young **Jun 2020 - Jan 2023**

Support Executive *Bengaluru, Karnataka, India*

- Supported 40+ applications on SharePoint using Power Automate, PowerApps, and Power BI for a global user base.
- Created and optimized Power BI reports and dashboards, transforming complex data into actionable insights. Performance-tuned 50+ reports and 15 SQL queries using Performance Analyzer, leading to significant efficiency improvements and preventing report refresh failures.
- Automated data extraction from XML to various formats using Python and transformed data into Dimension & Fact Tables in SQL. Developed secure Power BI reports, installed data gateways for on-premises access, and integrated dashboards into production environments.
- Worked on the Nucleus Monitoring Dashboard to track data loading metrics, maintained operational reports and scorecards, and executed report optimization strategies for enhanced performance and reliability.

- Developed SharePoint web pages, lists, document sets, and libraries tailored to specific business requirements, resulting in a 50% increase in operational speed compared to the previous system.
- Automated workflows using SharePoint Designer and MS Flow, reducing time for email notifications and other critical processes by 30% to 40%. Engaged in development using React, HTML, JS, and SPFX, followed by rigorous testing.
- Designed backend databases, front-end interfaces, and application logic to precisely meet business needs.

Projects

Optimization of Evolutionary Algorithm using Surrogate Model | *Genetic Algorithm, NSGA II, ML* **Fall 2024**

- Applied Genetic Algorithms to enhance multi-objective optimization tasks using NSGA-II (Non-dominated Sorting Genetic Algorithm II). Instead of direct evaluation through computationally expensive objective functions, implemented a surrogate model to approximate these functions.
- The surrogate model significantly reduced resource consumption by 90%, streamlining the optimization process and enabling faster and more efficient evaluations.

Employee Performance Analysis | *Data Visualization, Hypothesis Testing* **Spring 2024**

- Analyzed a dataset of employee evaluations to assess performance trends across departments.
- Built visualizations using Seaborn and Matplotlib to explore data distribution and relationships between variables and applied statistical methods, including hypothesis testing (t-tests, ANOVA), to identify significant factors influencing employee performance.
- Found that employees with higher education levels and more experience generally had better performance scores. Employees with balanced workloads performed better, and certain departments, particularly those with more collaborative environments, showed statistically significant differences in performance.

Restaurant Performance Analysis in the US | *Data collection and Preprocessing, EDA, Data Visualization* **Fall 2023**

- Analyzed a dataset of US restaurants to uncover insights into factors affecting performance, customer preferences, and regional trends.
- Gathered data from online platforms, cleaned and normalized it using Python (Pandas, NumPy).
- Visualized trends and distributions with Matplotlib and Seaborn, identifying popular cuisines, average ratings by region, and the impact of restaurant size on ratings.
- Developed a regression model with Scikit-learn to predict restaurant ratings based on features like location and cuisine type.
- Identified key factors influencing restaurant success and provided recommendations for location selection, menu optimization, and marketing strategies.

Technical Skills

Languages: Python, C/C++, SQL, HTML/CSS, JavaScript, React JS, jQuery.
Data Science & Machine Learning: Pandas, NumPy, Scikit-learn, TensorFlow, Keras, Matplotlib, Seaborn.
Data Analytics & Visualization: Power BI, Power Query, DAX, Matplotlib, Seaborn.
Database Management: SQL Server, Oracle, Azure SQL, SharePoint Lists, Dataverse.
Cloud Technologies: Azure fundamentals, Power Platform (Power Apps, MS Flow).
Web Services & APIs: REST API.
Tools & Technologies: SharePoint Online, SharePoint 2013 & 2019, SharePoint Designer, InfoPath forms, Microsoft Excel, Word, Adobe.

Certifications

- Certified in PL-900 Power Platform Fundamentals. (Oct 2022)
- MS-900 Microsoft 365 Fundamentals. (Dec 2021)

Leadership/Achievements

- Served as a Chief technical member at Ignite club, Sri Venkateswara University.
- Organized the departmental technical fest at SVU attracting over 400 students from diverse academic institutions.
- Conducted many quizzes and events at inter-college fests engaging over 100 participants and receiving commendation for event management.
- Hosted a client visit at TCS facilitating productive interactions and strengthening client relations.
- Cleared Digital exam at Tata Consultancy Services.
- Recognized with multiple awards, including the Technical Excellence award for valuable team contributions, as well as Achiever of the Month and Special Achiever awards at TCS.