VENKATA BALA NAGENDRA SRIRANGAM

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Education

Arizona State University, Tempe   **Jan 2023 – Dec 2024**
MS, Information Technology   **GPA: 3.87/4**
- Data Visualization and Reporting, Big Data Analytics, Advanced Big Data Analytics, Cloud Architecture(AWS)

Gandhi Institute of Technology and Management, India   **Jun 2016 – Aug 2020**
B.Tech, Computer Science and Engineering   **GPA: 3.5/4**

Technical Skills

Languages: Python, R, SQL.

Data Engineering Tools: Apache Airflow, Apache Kafka, Apache Spark, Docker, Jenkins.

Databases: MySQL, PostgreSQL, MongoDB

Data Analysis, BI Tools: Tableau, Microsoft Power BI **Cloud Services**: AWS

Professional Experience

Arizona State University, Arizona, USA

Graduate Teaching Assisstant   **May 2023 – Dec 2024**
- Streamlined critical **academic functions**, significantly enhancing the Introduction to Programming Languages course by boosting student engagement and achieving an overall class success rate of 90%.
- Optimized **Python and SQL** course preparations and enhance instruction materials, resulting in an 50% improvement in overall course effectiveness.

Cognizant Technology Solutions, Tamil Nadu, India

Associate Programmer Analyst   **Sep 2020 – Dec 2022**
- Analyzed and addressed 50% website needs across 10+ geographic divisions, delivering customized solutions. Work included **updating product images, managing seasonal campaigns, designing airport terminal maps, and creating informative pages using HTML, CSS, and PHP**.
- Revamped 100% customer-facing email templates in 12 International languages through **Magento PageBuilder** as a vital component of template enhancement initiative.
- Authored 20+ detailed documents on client-specific applications and project workflows,achieving 100% documentation completion covering **mobile API modifications, web applications,** seasonal discounts, website interfaces, airport terminal divisions, user database management, and hosting processes in **Magento 2.2 and 2.4**.
- Configured and validated 100% seasonal promotional campaigns on 25+ clients' e-commerce platforms using **Magento Admin**, including advanced customization of **pricing rules, catalog conditions, and targeted customer segments**.
- Led the onboarding and training of five new team members in **Magento 2.4** administration, developing technical guides and workflows to cover key aspects such as **API integrations, module configurations, and testing protocols**.
- Analyzed quality assurance processes using **log files, database queries, and performance metrics,** identifying inefficiencies and implementing enhancements to align with industry best practices.
- Employed **JIRA** for end-to-end project tracking, including **backlog management, sprint planning, and issue resolution,** directly contributing to a 10% increase in productivity and a 5% reduction in project delivery timelines

Academic Projects

US Road Accidents - Interactive Dashboard   **Tech: Tableau**
- Developed an interactive **Tableau** dashboard utilizing the US roads accidents data, enabling **dynamic exploration** and filtering of accident statistics by location, time, severity, and relevant factors for comprehensive visualization and analysis.

Clustering Analysis of Arizona Schools   **Tech: Python,Machine Learning**
- Initiated data collection and preprocessing by implementing the **"dropna()"** function in **Python** to handle missing values effectively resulting in 100% accuracy.
- Transformed 100% of categorical variables into numerical formats using **LabelEncoder**, ensuring compatibility with machine learning algorithms.
- Developed clustering models leveraging techniques such as **KMeans, DBSCAN, and Agglomerative Clustering**, fine-tuning hyperparameters by 15% for optimal performance.
- Assessed model quality using metrics like **Silhouette Score** to validate cluster separation and structure, concluding that KMeans provided the best results with an accuracy of 80% after comparing Silhouette Scores with Agglomerative Clustering.

Certifications

Power BI Data Analyst Associate - Microsoft

R Programming - Coursera(Johns Hopkins University)