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| Irving, TX  (682)-5523694 [esriramkalyan@gmail.com](mailto:esriramkalyan@gmail.com)  [Click here for my Portfolio](https://sri-ram-kalyan.github.io/sriramkalyan/)  [linkedin.com/in/sriramkalyan](https://www.linkedin.com/in/sriramkalyan//) | Sri Ram Kalyan Eathakota |  |
| EDUCATION |  |  |

# **M.S. Computer Science,** University of Texas at Arlington, CGPA: 3.45/4.00 **January 2021 — December 2022**

• Data Analysis and Modelling Techniques; Design and Analysis of Algorithms; Software Engineering- Management, Maintenance, and Quality Assurance; Data Mining; Neural Networks; Machine Learning; Advanced Databases/Cloud Computing; Web Data Management; Artificial Intelligence-I; Information Security-I.

**B.Tech. Computer Science,** Amrita School of Engineering, GPA: 6.99/10.00 **JUNE 2015 — JULY 2019**

# EXPERIENCE

## Data Engineer February 2023 — December 2023

Stacklogy Inc. Irving, TX

* Designed and optimized **SQL** queries for assembling large, intricate data sets, ensuring seamless data integration and manipulation within relational databases.
* Utilized **Python** for data extraction from diverse sources, employing libraries such as pandas for efficient data manipulation and transformation tasks. Improved data processing time by 25% through strategic use of Python algorithms.
* Developed and implemented a robust **ETL** infrastructure using SQL in conjunction with **AWS** big data technologies. Ensured efficient extraction, transformation, and loading of diverse data sources, enhancing data pipeline reliability and performance.
* Used **SQL** to create and maintain data models, facilitating efficient representation of business entities and relationships within the database. Collaborated with cross-functional teams to design dimensional models for analytical reporting.
* Utilized **Power** **BI** for crafting interactive and insightful data visualizations, enhancing communication of complex analytics results to stakeholders.

## Web Developer (Student Assistant) March 2021 — December 2022

University of Texas at Arlington-College of Science Arlington, TX

* Developed and managed web pages for the College of Science website using **Sitecore CMS** and **Cascade CMS**, ensuring seamless content creation and publishing processes.
* Full stack development and complete management (content creator and publisher) of the website using **HTML**, **CSS** and **JS**.

## Data Analyst August 2019 — December 2020

Elite Arts Visakhapatnam, India

* Led data-driven initiatives at Elite Arts, utilizing **SQL** and **Python** to optimize sales and inventory efficiency, resulting in a 16% increase in inventory efficiency.
* Automated daily operations through **Excel** macros and Python data pipelines, streamlining tasks and improving workflow efficiency.
* Designed and managed relational databases, ensuring efficient data storage and retrieval for informed decision-making.
* Conducted data mining to discover valuable insights from the company's datasets, facilitating data-driven strategies.
* Created interactive and visually appealing dashboards for data visualization and reporting using **Power** **BI**, enhancing data communication and decision-making.
* Developed an end-to-end Python model pipeline with tree-based algorithms, accurately predicting sales for the next 6 months, directly contributing to sales optimization efforts.

## Co-founder and Analyst January 2020 — March 2020

Cosmo Adventure India

• Designed and maintained a secure customer database using **SQL** for storing and managing travel itineraries and customer details, ensuring data integrity and efficient retrieval of information.

# CERTIFICATIONS

**AWS Certified Data Analytics – Specialty**

* Certified professional with expertise in AWS data analytics services, showcasing the ability to harness AWS tools for effective data analysis and insights.
* Demonstrated competency in optimizing data storage, processing, and analytics workflows within AWS, ensuring cost-effectiveness and compliance with industry standards.

# PROJECTS

## Sentiment Analysis of Twitter data using Machine Learning Techniques

* Developed a sentiment analysis pipeline utilizing **Logistic Regression**, **Bernoulli Naive Bayes**, and **SVM** classifiers, with feature extraction based on **TF**-**IDF**. Employed pre-processing techniques (**stemming**, **lemmatization**, **tokenization**) to enhance model accuracy.
* Conducted a comparative analysis of three models (**Bernoulli Naive Bayes**, **Linear SVC**, **Logistic Regression**) for sentiment classification, identifying **Logistic Regression** as the most accurate model.

**Siremar**

* Developed” Siremar Luxuries”, a secure website management system for an island using **SQL**, **PHP**, and **Laravel**, ensuring efficient data storage and management. Demonstrated expertise in advanced **SQL** techniques, including optimized queries, joins, and subqueries, for handling complex data relationships.
* Implemented an interactive user experience with **HTML**, **CSS**, and **React**, leveraging advanced **SQL** features for optimized data manipulation. Delivered a robust web application for managing island life, emphasizing efficient data storage and retrieval using **SQL**.

## Neural Network Development and Deep Learning Projects

* Developed and implemented neural network models using **Python**, **NumPy**, **TensorFlow**, and **Keras**. Created and fine-tuned Convolutional Neural Network (**CNN**) models for image classification tasks, including a CIFAR-10 image classifier.
* Trained Deep Convolutional Generative Adversarial Networks (**DCGAN**) on the MNIST dataset, generating realistic hand-drawn digit images using **Python**, **Keras**, and **TensorFlow**. Demonstrated proficiency in using these technologies to develop advanced neural network models.

## Continuous Care System using IoT

• Developed a device for vital signs monitoring with real-time data transmission to an online server, leveraging various sensors. Implemented alerts for remote monitoring, reducing hospital visits, and enabling timely intervention. Utilized **SQL** for efficient data management.

## Airline Management System

• Led team in delivering a user-friendly web application for Tata Consultancy Services, developing multiple web pages with **HTML**/**CSS** and implementing a **SQL** database using myPHPadmin. Created a seamless ticket booking system with seat selection, boarding pass management, and efficient boarding processes through barcode generation.

# TECHNICAL SKILLS

## Technologies and Programming Languages

• Python (Keras, TensorFlow, Scikit-Learn, Flask), SQL, SSMS, SSIS, SSRS, SAS, AWS, Snowflake, React, Java, C, HTML, CSS, Visual Studio, MS Excel, Power BI, Tableau, Adobe Photoshop, Adobe Premier Pro, Adobe Lightroom.

**Project Management**

• Agile, Scrum, MS Project