

# RAMYA S



+91 6379940534



[ramyamano2003@gmail.com](mailto:ramyamano2003@gmail.com)



<https://github.com/Ramyasundhararajan>



Nainarpalayam-606301.



<https://www.linkedin.com/in/ramya-s-60658624b/>

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## CAREER OBJECTIVE

- Enthusiastic Data Scientist with foundational skills in machine learning, data analysis, and Python, eager to apply analytical abilities to real-world challenges.

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## EDUCATION QUALIFICATION

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|---------------------------------------------------------|------------------|
| ▪ Pursuing M.Sc. Data Science, Bishop Heber College     | 8.54 (2023-2025) |
| ▪ B.Sc. Mathematics, Bharathiyar Arts & Science College | 86% (2020-2023)  |
| ▪ HSC Tagore Matric Hr.Sec, School                      | 8.54 (2018-2020) |

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## ACADEMIC PROJECT

### Mini Project in Creating Login Page using Tkinter and Python (2023)

- The Login Page Creation project integrates Tkinter for GUI development, speech recognition and gTTS to create a user-friendly login interface.
- It streamlines user authentication through speech input as well as giving input as text and password entry, enhancing accessibility.
- Additionally, providing auditory feedback upon successful login with audio as “Welcome” + username.
- **Technologies used: Python, Tkinter, gTTS.**

### Anomaly Detection in Network Traffic Data using Deep Learning Techniques (2024)

- Proposed and implemented a GAN-based approach, achieving higher accuracy compared to RNN and CNN models.
- Analyzed network traffic data to detect anomalies, contributing to cybersecurity threat identification
- Utilized a previous dataset to train the model, with the final project hosted on a site that provides real-time anomaly detection feedback
- Demonstrated the effectiveness of deep learning techniques in improving anomaly detection accuracy
- **Technologies used: Python, Deep Learning Techniques, Flask**

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## INTERNSHIPS

### Accenture North America Data Analytics & Data Visualization Job Simulation on Forage - May 2024

- Completed a simulation focused on advising a hypothetical social media client as a “Data Analyst” at Accenture.
- Cleaned, modelled and analyzed 7 datasets to uncover insights into content trends to inform strategic decisions.
- Prepared a PowerPoint deck and video presentation to communicate key insights for the client and internal stakeholders.

### BCG's Data Science on Forage - May 2024

- Completed a simulation as a “Junior Data Scientist” and performed a customer churn analysis leveraging Python (Pandas, NumPy) and data visualization, optimized a random forest model to 85% accuracy, and delivered actionable insights in an executive summary.
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## RESEARCH PAPER

### Anomaly Detection in Network Traffic Data using Deep Learning Techniques (2024)

- Presented and officially published in the ICCDA Conference Proceedings, November 13, 2024.
  - Explored advanced deep learning techniques to detect anomalies in network traffic for cybersecurity threat identification.
  - Conducted thorough data analysis and model evaluation, demonstrating a high level of accuracy and effectiveness.
  - Contributed to ongoing research in the field of anomaly detection and cybersecurity.
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## CERTIFICATIONS

- Certified in Introduction in Python Programming by Coursera.
  - Certified in Data Visualization with Tableau by Great Learning Academy.
  - Certified in 30 days MasterClass in Artificial Intelligence by NoviTech R&D Private Limited.
  - Certified in Programming Foundations with Python by Nxtwave CCBP 4.0 Intensive.
  - Certified in Introduction in Databases by Nxtwave CCBP 4.0 Intensive.
  - Certified in Data Visualization with PowerBI by Great Learning Academy.
  - Certified in Azure Fundamentals by Microsoft.
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## SKILLS

- Python
  - Python Libraries: Numpy, Pandas, Scikit-learn, TensorFlow, Matplotlib, Seaborn, PyTorch.
  - Machine Learning
  - Natural Language Processing
  - Deep Learning
  - Big Data
  - Computer Vision
  - SQL
  - MongoDB
  - PowerBI
  - Tableau
  - Azure Fundamentals
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