Ram Alagappan

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https://ram-8.github.io/Website/ | linkedin.com/in/Ram-a- | github.com/Ram-8

Education

Arizona State University | Tempe, arizona Aug 2024 - May 2026
MS in Computer Engineering (Computer Systems)

SRM Institute of Science and Technology | Ramapuram, India Aug 2020 - May 2024
Bachelor of Technology in Computer Science and Engineering with AI and ML
GPA: 9.01/10

Skills

Languages & libraries: Python, C++, C, HTML, CSS, Numpy, Pandas, Matplotlib, Scikitlearn, tensorflow, Pytorch

Tools & platforms: Machine Learning, Pycharm, XCode, Visual Studio Code

Internships

Machine Learning Engineer, Cognizant July 2023

- Gained experience in data analysis, modeling, and model building with techniques such as ***regression analysis, Monte Carlo simulation, entity-relationship modeling, and data mining.*** Worked with large datasets, cleaned and preprocessed data and created predictive models that forecasted the future for better decision making.

Data Scientist, Oasis Infobyte March 2023

- Assisted in data analysis and visualization, building machine learning models for predictive analytics using ***Python and R*** and evaluated algorithms to improve the accuracy of the model. This improved my skills in data cleaning, statistical analysis, and model evaluation by giving me a hands-on experince on these topics.

Data Science Intern, Code Clause August 2023

- As a Data Science Intern, I worked on ***Feature Engineering***, building machine learning models, and evaluating their performance and creating data pipelines to automate processes and improve data handling efficiency.

Publications

Emergency Alert and Adaptive Traffic Signal System Using Machine Learning May 2024
Gowthamy J, SenthilSelvi A, ***Ram A***, Rohit R, Niranjan S
10.1007/978-981-97-1329-5_7

Knowledge Driven Semantic Segmentation on Instance Adaptive Learning Accepted for publication in IEEE Explore, expected 2025
Rohit R, ***Ram A***, Siddarth Lakshmanan

Projects

Market Basket Analysis in Python using Apriori Algorithm Market Basket Analysis

- Market Basket is used to identify relationships between products that are frequently purchased together by examining patterns in customer's purchase data.
- This project uses the data set of the customer's purchase history to understand the product grouping and predict products that are likely to be purchased together by using the ***Apriori algorithm*** in Python.

Churn Prediction in Telecom Industry using Logistic Regression Churn Prediciton

- This project involves identifying customers who are likely to leave the company's services (churn) by using ***logistic regression***, performed on a dataset from kaggle.

Smart Selection for Optimal D2D Communication Backup Device and Anomaly Detection October 2023

- Proposed a framework for selecting backup D2D communication UE's based on criteria like signal strength, battery life, proximity, and historical reliability using ***logistic regression and F-1 score***, When the primarily connected UE RELAY is not in range.