4302 College Main St.
Bryan TX, 77801

ROLINE STAPNY SALDANHA

https://www.linkedin.com/in/roline-stapny-saldanha/

+1 (979) 709-3361
rolinestapny@gmail.com

EDUCATION

Texas A&M University, College Station, TX May 2021
Masters in Computer Science - GPA - 4.0/4.0

N.M.A.M. Institute of Technology, Nitte, India May 2019
Bachelor of Engineering in Computer Science & Engineering - GPA - 9.54/10

TECHNICAL SKILLS

Languages: Python, Java, C++, C, HTML, CSS, PHP, SQL, Android, JavaScript

Other Skills: API Development, Flask, Machine Learning, Neural Networks, Jupyter Notebook, Pandas, Tensorflow, GIT, Kafka, AWS, Spark, Docker.

Courses Taken: Deep Learning, Artificial Intelligence, Distributed Systems and Cloud Computing, Information Storage and Retrieval, Analysis of Algorithms, Software Engineering.

EXPERIENCE

Goldman Sachs - *Summer Analyst at Marcus Cloud team* July 2020 – Aug. 2020

- Developed ECS Dashboard application that helps developers to quickly view anomalies in ECS services.
- Built the back-end by creating API Endpoints in **Python** using **Boto3** and **Flask.**
- Worked on the CI/CD pipeline and Containerizing the application using **Docker**.
- Implemented the entire application in less than 4 weeks.

National Institute of Technology Karnataka - *Summer Research intern* May 2018 – Jun. 2018

- Proposed a novel approach for Kannada language dialect identification.
- Explored speech related features and developed the model using **Support Vector Machine classifier** with an accuracy of 88.5%.

PROJECTS

Real time data analytics using Spark April 2020

- Analyzed COVID-19 related tweets in realtime using Spark.
- Developed the application using **flask**, kafka and JavaScript.

Predicting the Airline arrival delay April 2020

- Cleaned the data and built multiple visualization plots to analyze the given flight dataset.
- Built prediction models using **Linear Regression, Lasso, Ridge, and Bagged Linear Algorithms**.
- Finalist in **TAMIDS Data Science Competition 2020.**

Image Colorization using U-Net - Neural Network Dec. 2019

- Built **U-Net** deep neural network to colorize the grayscale images using **Keras**.
- Created classification and regression colorization models.
- Tuned the models by changing the loss function, hidden layers, hidden units, and dataset variety.

Biology Animations Dec. 2019

- Created interactive animations using **JavaScript** to improve the biology learning experience of middle school students.
- Integrated these apps into the stepstone learning environment.

Prediction of difficulties in Respiratory Airway Management of Patients using Machine Learning April 2019

- Proposed a **novel** approach to detect airway management difficulties.
- Led the Mask Ventilation subsystem and developed a prediction model with an accuracy of 97%.
- Developed the application using **PHP, HTML, CSS, JavaScript, Python, and Machine Learning** which assists anesthesiologists.

LEADERSHIP & ACHIEVEMENTS

- **Graduate Vice President** of AWICS - Aggie Women in Computer Science club for the year 2020-2021.
- Project of the year Award (3rd) in EXPRO 2019.
- Authored 2 conference papers published in '*2019 IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER)'.*