

ELISHA SHRESTHA

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SUMMARY

Experienced Machine Learning Engineer with 3 years of intensive experience collaborating with multi-disciplinary teams in the development and integration of ML and AI software programs.

EDUCATION

Master of Science in Data Science	Expected Dec 2022
University of Delaware, Newark, DE, USA	GPA – 3.33
Bachelor of Engineering in Computer Engineering	Oct 2018
Advanced College of Engineering and Management, Nepal	GPA – 3.7

SKILLS

Language & Database: Python (NumPy, Pandas, Scikit-learn, Matplotlib, Flask), SQL (MySQL, Oracle), C++
Other: AWS, Tableau, TensorFlow, Keras, Git, Docker, Excel, Linux, SAS, HTML, RASA

PROFESSIONAL EXPERIENCE

Machine Learning Engineer Gritfeat Solutions	Dec 2018 – Aug 2021
<ul style="list-style-type: none">Designed and optimized multiple prediction algorithms, increasing the model accuracy to at least 88%.Performed clustering on time-series data to find the identical retail stores, saving the analysis time for individual stores by 1 hour per day.Implemented various time series forecasting techniques to predict surge in foot traffic to lower average customer wait time by 10 minutes.Programmed a Python script for anomaly detection based on sales history & automated it to send email alerts, which reduced the manual intervention time by almost 20 hours a week.Trained and deployed ML models in AWS Sagemaker, and lowered the Sagemaker cost by 65% by using python boto3 SDK to operate the instance only when required.Set up MQTT Broker to collect streaming data from sensors, and improved the resilience by 50%.Serialized streaming sensor data using AWS API Gateway and AWS Lambda, saving the server cost by \$2000 a month.Created interactive dashboards for demonstration using Tableau to onboard new clients, increasing the company revenue by \$500,000.Trained and mentored 3 fresh graduates to understand business problems and their respective algorithmic solution.Collaborated with multiple teams to analyze the requirements of new user stories, which eventually helped in story point estimation during grooming sessions.	

ACADEMIC PROJECTS

Spam Classification UD, Newark, DE	Dec 2021
<ul style="list-style-type: none">Implemented Logistic Regression model from scratch to classify spam emails with an accuracy of 87%.	
Time-series Clustering using Dynamic Time Warping UD, Newark, DE	Dec 2021
<ul style="list-style-type: none">Perceived and documented mathematical knowledge behind DTW algorithm to cluster time-series data for Data Mining course.	
Customer Churn Prediction ACEM, Nepal	Nov 2017 – Dec 2018
<ul style="list-style-type: none">Built and compared model based on Naïve Bayes, Random Forest, Logistic Regression, and XGBoost to predict customer churn rate on telecommunication data.Published journal based on the model comparison and analysis of data. Journal can be found here.	

PROFESSIONAL AND CAMPUS INVOLVEMENT

Campus Event Technician UD, Newark, DE	Jan 2022 – Present
<ul style="list-style-type: none">Setup and operated sound, lighting, projection, and multi-media equipment.Provided technical support and assistance to event sponsors, performances and screenings.	