Ronnit Roy Burman

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OBJECTIVE:

A machine learning engineering graduate with hands on work experience as a Data Scientist - seeking opportunities to be able to apply Machine Learning methods and develop algorithms to solve real world industrial problems.

TECHNICAL SKILLS

- Tools & Languages Python, PostgreSQL, BigQuerry, R, AWS, Matlab
- Packages NumPy, Pandas, Scikit-Learn, Git, Jupyter, PyTorch, Keras
- Data Visualization Power BI, Matplotlib, Seaborn
- Machine Learning CNN, SVM, Random Forest, PCA, LDA, KNN, Deep Learning
- Statistical Modelling IBM SPSS, Clustering, ANOVA, Logistic Regression, A/B Testing

WORK EXPERIENCE

DEC 2022 Jun 2022	 Data Science Intern - Tyco Security Products Increased sales opportunities by 7% through development of Recommender and GeoSpatial Analytics packages for the Technical Sales team Increased 'unique views per day' by 113% by initiating optimized mobile view reports for Power BI Performed EDA on more than 50GB data using PostgreSQL, Pandas and Google BigQuerry 	
DEC 2022 JAN 2022	 Teaching Assistant - University of Waterloo SYDE600 (Fall 22) - Helped students with the SPRINT protocol for Systems Design methods SYDE-192L (Spring 22) & BME-341L (Winter 22) - Helped undergrads understand, develop and implement Digital Logic Systems 	
SEP 2021 JUL 2016	 Sr. Systems Engineer - Johnson Controls 10%-30% reduction in energy consumption of Commercial Building by engineering solutions after analyzing data from building sensors such as pressure sensors, temperature and humidity sensors, flowmeters, energymeters, occupancy sensors and the like. Managed teams across three countries in different timezones to deliver projects (end-to-end) on time 100% Client retention and 137% increase in Client re-orders as a result of Responsible and charismatic client communication measurable by appreciation emails from clients and 100% response rate 24hrs of client email Provided five invention disclosures and a Patent to the company within the first two years 	

TECHNICAL PROJECTS

Jul 2022 Jan 2022	 American Sign Language Recogition - Github Link Built and compared performance of various Machine Learning (Logistic Regression, SVM and Random Forest classifiers) and Deep Learning classifiers for the American Sign Language dataset. Several dimensionality reduction techniques are applied to assess the complexity of the data and its compressibility capacity. 	
Jun 2022 Oct 2022	 GeoSpatial Data Analytics & Data Visualization - Personal Project Cleaned raw data to extract zip-code and city data. Increased capacity from 100 requests per minute to unlimited requests by developing a package to bypass GIS API call). Visualized data for GeoSpatial analytics and understanding using ESRI modules in Power BI. 	
Jul 2018 Jan 2017	 Building Traffic Characterization using Building Data - Personal Project Hypothesized a model to predict customer influx in a retail store using BAS data. Chiller Plant Optimization (CPO-10, CPO-30) on the output of this predictor leads to a potential 10% reduction of overall operating cost of the store in terms of energy savings from the HVAC equipment. 	

EDUCATION

Dec 2022	Master of Engineering - Artificial Intelligence and Machine Learning	GPA: 89.5
Sep 2021	Systems Design Engineering Department	
	University of Waterloo, Waterloo, Ontario	
May 2016	Bachelor of Technology - Electronics and Instrumentation	CGPA: 8.1
Jul 2012	School of Electrical Engineering	
	VIT University, Vellore, TN - India	