Ronnit Roy Burman

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OBJECTIVE:

An innovative machine learning engineer with hands on work experience as a Data Science Intern - seeking full-time 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, Tensorflow
- 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

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| Work Experience | | | |
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| Present Jun 2022 | Data Science Intern - Safety Products, Johnson Controls 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 | | |
| SEP 2021 JUL 2016 | Sr. Systems Engineer - Building Solutions, 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, energy meters, occupancy sensors and the like. 100% Client retention and 137% increase in Client re-orders as a result of client communication measurable by appreciation emails from clients and 100% response rate within the 24hrs of client email Received "Merit Award" (one of the most prestigious awards globally) for going out of the way in developing innovative proof of concepts leading to a pending patent. Designated as the Innovation Lead in 2019 for Eastern Part of North America to drive innovation ideation process among the front line workers such as field technicians | | |

TECHNICAL PROJECTS

| SEP 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 were applied to assess the complexity of the data and its compressibility capacity. • Prototyped an ASL fingerspelling education system app which increased the effective learning metric by 2-3 times in comparison to the current technology. By incorporating the ASL fingerspelling detection feature in the backend we were able to provide feedback on the correctness of fingerspelling signing by the user. |
|----------------------|---|
| 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 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 | |

EDUCATION

| Master of Engineering - Artificial Intelligence and Machine Learning Systems Design Engineering Department University of Waterloo, Waterloo, Ontario | GPA: 3.93 |
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| Bachelor of Technology - Electronics and Instrumentation School of Electrical Engineering VIT University, Vellore, TN - India | GPA: 3.62 |