# YOGESH NIZZER

Machine Learning Enthusiast with 3 years of Analytics experience
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LinkedIn | Github | Portfolio
Available: Jan 2021 - Aug 2021 for Co-op

## Education

**Northeastern University** Boston (MA) *Anticipated December 2021*
*Pursuing Masters in Data Science–3.83/4 (GPA)*

Coursework: Algorithms, Data Structures, Data Management and Processing, Supervised Machine Learning Text Mining and Natural Language Processing, Linear Algebra and Probability

**National Institute of Technology Hamirpur** Himachal Pradesh (India) *Jun 2016*
*Bachelor of Technology in Mechanical Engineering–8.36/10 (CGPA)*

## Experience

**Eveready Industries India Limited** Uttrakhand *Jul. 2016 – Mar. 2019*
*Executive Data Engineer*

- Developed complete pipelines, including webapps, predictive models, and SQL databases.
- Wrote complex queries to map SQL databases, transformed retrieved data into consistent formats.
- Investigated, defined, and iterated with business partners to define business problems and data science use cases.
- Analyzed large complex data sets from structured and unstructured sources to extract actionable insights; developed dashboards and recurring reporting deliverables to communicate insights and recommendations to key stakeholders.
- Assessed the quality of historical panel datasets; identified and diagnosed deficiencies and recommended solutions.

***Selected Achievements:***

- Developed a predictive model that improved detection of hardware failure using onboard sensor data, the model reduced the breakdown time by 20 percent.
- Created a model based on polynomial regression with appropriate regularization function and SVM to predict major part failures, the model reduced inventory costs by 10 percent.
- Awarded the Best Kaizen Implementation Award and the Excellence Award.

**Graduate Teaching Assistant, Northeastern University** Boston *Sept. 2020 – Present*
*Courses : CS2500 Fundamentals of Programming language*

- Responsible for grading and aiding students in assignments. Helped in clearing students' doubts in topics ranging from Structures, data definitions, Design with large data, Generative recursion

## Projects

**IDMP Data Processing and Modeling Tool** (HTTPS://IDMP-DATA-TOOL.HEROKUAPP.COM)

- Developed a python(Dash) based web application that allowed user to upload data sets and perform data analysis
- Implemented modules for hypothesis testing and modeling using machine learning algorithms

**StarGAN for Multi-domain Image Translation**

- Implemented a StarGAN in Python to translate images across multiple characteristics
- Translated human faces across various domains like expressions, color, gender, age, etc. using the GAN configuration implemented in this paper

**Universal Sentiment Analysis App** (HTTPS://UNIVERSAL-SENTIMENT.HEROKUAPP.COM)

- Developed a python(Streamlit) based web application to perform sentiment analysis on any data set using Spacy library and Streamlit framework
- Incorporated different methods for tokenization and vectorization(CV, TFIDF, NMF, LDA)
- Included options to visualize cosine similarity, finding top-words for a positive or negative sentiment, perform modeling with classifier like SVC, Gradient Boosting, Naïve Bayes, Random Forest to find accuracy of model

## Technical Skills

**Languages**: Python, R, SQL (Postgres) R
**Design and Visualization**: Matplotlib, Plotly, Seaborn, Dash, Streamlit
**Machine Learning/Analytics**: TensorFlow, Scikit Learn, Keras, PyTorch
**ML Domain**: Deep learning, SVM, RF, XGBOOST, Time Series modeling, Neural Network configs(CNN, RNN, LSTM)