YOGESH NIZZER

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LinkedIn ● Github ● Portfolio

EDUCATION

NORTHEASTERN UNIVERSITY — Boston, MA

Master of Science, Data Science – Anticipated December 2021

- Honors: 3.83/4.00 GPA, Dean's List.
- Graduate Teaching Assistant: CS2500, Fundamentals of Programming Language – September 2020 – Present.
- Selected Coursework: Algorithms and Data Structures, Computer Engineering, Data Management and Processing, Machine Learning and Data Mining, Information Visualization: Applications in Data Science.

NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR — Himachal Pradesh, India

Bachelor of Technology, Mechanical Engineering – June 2016

PROFESSIONAL EXPERIENCE

EVERREADY INDUSTRIES INDIA LIMITED — Uttrakhand, India

Executive Data Engineer – July 2016 – March 2019

- Built, deployed, tested, and monitored data models. Developed complete pipelines, including webapps, predictive models, and SQL databases. Performed data mining, data wrangling, and data transformation.
- Wrote complex queries to map SQL databases; transformed retrieved data into formats consistent with model inputs.
- 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:

- Awarded the Best Kaizen Implementation Award and the Excellence Award.
- 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%.

PROJECTS

IDMP DATA PROCESSING AND MODELING TOOL (HTTPS://IDMP-DATA-TOOL.HEROKUAPP.COM)

- Developed a Python based web application that allowed users 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 including expressions, color, gender, and age.

UNIVERSAL SENTIMENT ANALYSIS APP (HTTPS://UNIVERSAL-SENTIMENT.HEROKUAPP.COM)

- Developed a Python based web application to perform sentiment analysis on data sets using Spacy library and Streamlit framework. Incorporated different methods for tokenization (Stopwords, Entities, Lowercase) and vectorization (CV, TFIDF, NMF, LDA) with options to visualize cosine similarity, find top-words for a positive or negative sentiment, and perform modeling with classifiers (SVC, Gradient Boosting, Na¨ıve Bayes, Random Forest).

TECHNICAL SKILLS

- Languages: Python, R, SQL (Postgres), R, Object-Oriented Programming (OOP)
- Design /Visualization: Matplotlib, Plotly, Seaborn, Streamlit
- Machine Learning: TensorFlow, Scikit Learn, Keras, PyTorch
- ML Domain: Deep Learning, SVM, RF, XGBOOST, Time Series Modeling, Neural Network Configs