Yogesh Kumar Nizzer

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EDUCATION

Northeastern University   Boston, MA
Khoury College of Computer Sciences   Jan 2020- Present
Candidate for Master of Science in Data Science   Expected Graduation: Dec 2021
Relevant Courses: Data management and Processing,Text mining,
Natural language processing, Linear Algebra, Probability and Statistics

NIT Hamirpur   Hamirpur, India
Bachelor of Technology in Mechanical Engineering   Jun 2016
CGPA: 8.36/10 (Top 10% in class)
Relevant courses: Discrete mathematics, Partial Differentiation Equation, Numerical Analysis, Object Oriented Programming, Data Structures

TECHNICAL SKILLS

Statistics: Regression Models (Linear, Multilinear, Logistic), Decision Tree, Hypothesis Testing
Programming Skills: Python (Plotly, Dash, NumPy, Pandas, Seaborn, Scikit-learn, Spacy, NLTK), R
Tools & Databases: Tableau, Microsoft Power BI, MS Excel (VBA, Power Query), MySQL, PostgreSQL

EXPERIENCE

EVEREADY Industries India Limited   Haridwar, India

Executive Engineer   Jul 2017 – Mar 2019
- Designed and installed automatic raw material feeding machine, leading a team of 12 to cut down waste by 30 %.
- Collected, cleaned and provided modeling and analyses of structured and unstructured data using improved production forecasting, reduced machine breakdown by 25 percent
- Suggested change in material through predictive diagnostics for part failure; saved over INR 0.6 million for single manufacturing plant of Eveready Industries
- Developed and Improved risk management analytical models to help management identify and manage risk
- Performed real-time analysis of problems, documented faults in tracking system and generated daily reports
- Developed database objects, including tables, views and materialized views using SQL
- Extracted and analyzed team incidents to identify key metrics, developed dashboards in Tableau: driving effective business decisions involving 10 million customers

PROJECTS

Market Based Analysis for Grocery store and Text analysis *[NLP, Decision Trees, Image Analytics]*
- Discovered association rules indicating items purchased together using Rstudio
- Pre-processed unstructured text and classified it into spam/ham and built Random Forest model using concepts of LSA, TF-IDF and SVD achieved an accuracy of 97%
- Augmented the images using keras pre-processing and experimented different combinations of Activations, Optimizers and Convolution layers thereby improving accuracy by 20%.

Universal Dataset Analysis Dashboard - Northeastern University *[Plotly, Dash, matplotlib]*
- Built universal platform to analyse datasets available on Kaggle using dash (plotly) library in python.
- Designed multi-option dashboard giving user opportunity to gain insights on data through filtering, plotting, modeling and data exploration on top of any dataset available on Kaggle
- Analysed 570 instances of Breast Cancer Dataset and developed a linear model to predict the likeliness of cancer

House price prediction model – Kaggle
- Cleaned data from original 2958 records in raw dataset, removed duplicate and irrelevant records & corrected errors
- Predicted house selling price from 79 explanatory variables using random forest and gradient boosting

Activities
- Taught Probability, Algebra, Arithmetics, Data Interpretation to over 300+ students for exams like GRE, CAT(MBA)
- Built a platform for students to learn Maths/Python/R through examples.