Rupam Jogal

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SKILLS

Programming languages
Databases/ETL/Cloud Platform
Machine learning algorithms
Frameworks/ Platform's
IDE'S

R, Python (numpy, pandas, seaborn, sklearn, matplotlib), HTML, CSS, C, C++, SQL

SQL Server, MySQL, Spark, Cloudera, AWS, Microsoft Azure

Statistical Analysis, Deep Learning, Classification, Decision Tree, Forecasting, Support Vector Machines, KNN

Tensorflow, NLTK, PyCharm, Tableau, Microsoft PowerBI, Advanced Excel (vlookup), Alteryx R-Studio, Matlab, MS Office, Latex, Visual Studio, Scilab, NetBeans IDE, Eclipse, GitHub, Jupyter

EDUCATION

Northeastern University | Boston, USA | MS in Analytics - GPA: 3.76

Apr 2020

 Relevant Coursework: Probability Theory & Statistics, Data Mining Applications, Data Visualization, Predictive Analytics, Data Management, and Big Data, Application of AI, Data Warehousing and SQL, Data-Driven Decision Making

Ahmedabad University | Ahmedabad, India | Bachelor of Technology in Information and Communication Technology

May 2018

Relevant Coursework: Object-Oriented Programming, Data Structures, and Algorithms, Linear Algebra, Database Management Systems,
 Operating Systems, Machine Learning

PROJECTS

Burial Record Image/Text Recognition

Dec 2019

- Applying classification using keras and tensorflow in backed to the dataset with dead burial records using max-pooling and relu and classified them into 6 classes with convolution neural network (CNN) achieved an accuracy of 94%
- Recognizing texts with Optical Character Recognition using opencv pytesseract and then AWS textract and achieved a confidence interval with AWS and S3 for all the images in the dataset around 95%

Customer Churn Analysis Aug 2019

Deploying a machine learning-based classification model in order to predict the churn percentage in the dataset based on the customer usage
patterns and performing analysis using a classification machine learning algorithm for figuring the churn rate. Classified using sci-kit learn
RandomForestClassifier, Naïve Bayes (GaussianNB), kNN (KNeighborsClassifier) and LogisticRegression, evaluated confusion matrix scored for
every model with random forest model with the best accuracy among all other models

Sentiment Analysis Jun 2019

- Implementing Natural Language Processing on the dataset with textual requests for Pizza using NLTK, tokenized and lowercased the sentences
 and words in the data and applying the statistical model to gain information from data
- Identifying the stop words as well as punctuations and removing them to only have a gist of the document. **Stemming** and **Lemmatizing** words with the help of **Parts of Speech** tags and applying tangential note on the respective lemmatization. Vectorizing the words with sci-kit learn
- Applying Naïve Bayes classification and SVM to find out if the requester gets the pizza or not and see is their review is positive or negative

Online Shopping Management

Oct 2018

- Creating the normalized ER model for the online shopping management database using Visio
- Implementing check constraints, stored procedures, views column encryption and SQL queries that answer the question about the database in MySQL, creating reports based on the quality, price and geography on PowerBI with visualizations

Pest and Disease identification in plants

May 2018

Identifying different stages of disease in the cotton plant, converting the RGB image into HSV to do the leaf edge detection by removing the
background noise and reducing the image pixels further segmenting the leaf image with kNN and extracting features like texture and color for
the classification of diseases with the classifier with an accuracy of 77.8%

EXPERIENCE

Northeastern University (College of Professional Studies) | Boston, MA

Dec 2019 - Present

Teaching Assistant (Intermediate Analytics)

 Assisting the professor in setting up the materials for the lecture and assignments, review the students' assignment as soon as they are submitted while identifying students weaknesses, misconception and errors

Northeastern University (Information Technology Services) | Boston, MA

Dec 2018 – Present

Customer Service Analyst

- Managing more than 200 students, 15 high profile faculty for providing them unrestricted access round the clock to the knowledge treasure
- Performing ETL using Alteryx and generating dynamic dashboards using Tableau which helped in the improvement of the inventory forecasting, designing strategies which would help in checking the available back end inventory
- Designing a Tableau frontend that displayed various inventories available which help the customers understand the shortage and availability of the inventories, performing data **quality assurance** used for improving the hardware and software technical support provided in person
- Submitting a Request for Change (RFC) to request service not offered at the ITS, or change a current product or service
- Troubleshooting an issue and raising a ticket using ServiceNow and help them resolve over the call

Pixometry Infosoft Pvt. Ltd. | Ahmedabad, India

Jan 2018 - May 2018

Business Data Analyst

- Applying topic modeling with the help of **Gensim** in order to help in the risk prediction. Built a dictionary and a corpus using Python which helped in counting the words in each file, creating a **Term-Frequency Inverse Document Frequency**
- Tokenizing words further created the bigrams and trigrams from the words and performed the topic modeling with unsupervised machine learning Latent Semantic Indexing (LSI) algorithm which used SVD helped in providing the percentage contribution of each word in the files using a pre-built Word2Vec model and hence gave a prediction accuracy of 68%

PROFESSIONAL DEVELOPMENT

Stanford University, Machine Learning (Coursera MOOC by Andrew Ng)

Nov 2019 – Present

Microsoft DAT217x, Implementing ETL with SQL Server Integration Services (edX MOOC)

Dec 2019 - Present