Samata Dubey

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More than 3.2 years of experience in Data Science, now seeking a challenging position to utilize my skills and abilities that offers Professional & Organizational growth, while being resourceful and innovative.

Professional Profile

Machine Learning Engineer
Clarion Technologies, Pune   *Dec 2020 to present*

- Ability to write a clean and production code with Object Oriented Programming in Python.
- Strong Programming skills.
- Knowledge of data management tool - SQL databases.
- A professional with experience in Python, Data Science and Machine learning with expertise in Banking, Utility & lifestyle and Health domain projects.
- Ability to achieve in-depth understanding of the problem domain and available data assets
- Knowledge of Python's Data Analysis and Machine Learning Libraries.
- Able to investigate Data Visualization and summarization techniques conveying key findings.
- Communicates findings and obstacles to team members to achieve best approach.
- Source code management and Version Control system using GitHub.
- Strong communication and interpersonal skills

Skills

Machine Learning and Data Science:
- **Python/ML Packages**: Numpy, Pandas, Sci-py, Scikit-learn, Seaborn, Matplotlib, Flask.
- **Machine learning:** Linear Regression, Ridge & Lasso Regression, Logistic Regression, Naïve Bayes Classifier, k Nearest Neighbor's Classifier, Support Vector Machine, Decision Tree, Random Forest, Gradient Descent, Ada-Boost, XGBoost, K-means Clustering,PCA
- **NLP:** Understanding, representation, classification & clustering of Text
- **Libraries:** nltk, spacy, gensim, textblob, langdetect, googletrans
- **Deep Learning:** Neural Networks, Deep Learning, ANN, CNN, Back Propagation, Linear Algebra, Activation & loss functions, optimisers, Tensorflow 2.x, Keras
- **Cloud Platforms/Services:** AWS (EC2, S3, Sagemaker)
- **Web stack :** Flask, Postman
- **Operating Systems :** Linux, Windows
- **Databases :** SQL, MongoDB, 3C(Command, Constrains, Clauses), CRUD operations, Subqueries, Window functions, Joins

Project Details

Project 1 : Retention Radar: Churn Prediction and Retention Optimization by using machine learning
Domain : Utility and Lifestyle
Description: To analyze customer-level data of a leading UK based domestic service firm and Build multiple models and select the best model to predict the customers who are going to churn and identify the mainindicators of churn. For Domestic service company it is key to attract new customers and at the same time avoid contract terminations (=churn) to grow their revenue generating base.

Project 2 : EmpathEHR: NLP-driven Analysis of Patient Emotions and Experiences

Domain : Healthcare

Description: To analyze the data of a healthcare chain client to find out the most common complaints or compliments and Segment information based on clinicians or departments, and other parameters to recognize opportunities for patient care improvement and to gain a competative advantages over their rivals and thereby enhance their business outcomes at a large scale.

Project 3 : Predictive Insight: A Machine Learning Analysis of Customer Term Deposit Subscriptions

Domain : Banking

Description: There has been a revenue decline for a US based bank. They found out that the root cause is that, their clients are not depositing as frequently as before. Knowing that term deposits allow banks to hold onto a deposit for a specific amount of time, so banks can invest in higher gain financial products to make a profit. The bank would like to identify existing customers that have higher chance to subscribe for a term deposit and focus marketing efforts on such customers to further increase their revenue.

Personal Project

Project 1 : Image Classification (Deep Learning) (Personal Project)
- Classified 20000 coloured images into two classes (10000 images per class)
- Built CNN model using Python, TensorFlow, Keras.
- Trained and tested the model built with 20000 and 5000 images respectively
- Aimed to increase image classification from 89% to 90%

Education

- B.Tech | Rashtrasant Tukdoji Maharaj Nagpur University (RTMNU) | 2019 | 7.83 CGPA
- HSC | Nagpur Divisional Board | 2015 | 73.69%
- SSC | Nagpur Divisional Board | 2013 | 92.36%

Personal Details

- Dob: 02/06/1997
- Languages: English, Hindi, Marathi
- Address: Mahatma Phule Chowk, Babupeth, Chandrapur.
- Hobbies: Painting, Cooking, Gardening, Playing Badminton
- Marital Status: Unmarried