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| DHAYANANTH SWAMINATHAN | Mob : +918144546379  Mail : [dhayananthswaminathan@gmail.com](mailto:dhayananthswaminathan@gmail.com)  LinkedIn : [dhayananth-swaminathan](https://www.linkedin.com/in/dhayananth-swaminathan) |

**PROFILE**

* 1+ years’ experience in data science focussed on Computer Vision, deep learning, data and statistical analysis.
* Master’s degree holder in Data Science with Bachelor of Engineering in Computer Science
* Demonstrated adeptness in programming languages such as Python and SQL.
* Proficient experience in Machine Learning techniques such as Random Forest, Naïve Bayes, Logistic Regression, Neural Networks, Hyperparameter Tuning, Gradient Boosting Machine
* Competent in Statistics (Significance testing, ANOVA, MANOVA, Regression, Factor analysis).
* Proficient in data pre-processing, Feature Engineering, data visualization and Algorithm Optimization.
* Seeking opportunities in data science and machine learning domain

**SKILLS**

* Programming – Python, R
* Machine Learning – Classification, Regression, Clustering, Time Series Forecasting, NLP
* Deep Learning – ANN, CNN, RNN, LSTM, GAN, Autoencoder, Keras, Tensorflow
* Machine Learning Libraries – Pandas, NumPy, Scikit, Matplotlib
* Computer Vision – OpenCV, Scikit-image
* Databases – MySQL, MongoDB, Cassandra
* Big Data tools – Hadoop, MapReduce, Pig, Spark, HBase
* Operating Systems – Linux, Windows, Mac OS
* Data Visualization – Tableau, Excel

**WORK EXPERIENCE**

**NORIZEN SOFT SOLUTIONS, CHENNAI, india**

**DATA SCIENTIST,** December 2019 − Present

* Deployed Convolutional Neural Network for developing an application for Student Emotion Detection
* Enhanced the data retrieval process from logistics invoice image using Computer Vision (OpenCV) and structured it for business consumption.
* Improved the efficiency of data extraction by undergoing pattern matching for various templates present in the source images.
* Exploratory data analysis to understand the underlying data patterns.
* Solving business problems with efficient and cost-effective delivery with deep learning and statistical inference (python).
* Improved the quality and accessibility of data by denoising the images using morphological transformations, filtering, segmentation and masking.

**EDUCATION:**

**Institute of Technology Carlow, Carlow**

**Master of Science: Data Science,** September 2018 − August 2019

***Key Projects:***

Prediction of Credit Card Fraud Customer Using Machine Learning

* Designed and delivered a model with high accuracy 75% and less false negative rate 43% where customers ineligible for credit cards were ascertained using Taiwan Dataset.
* Coordinated implementation of Correlation Analysis and oversampling to improve accuracy of models for process improvement.
* Implemented several machine learning models, and best model with better metrics was identified for prediction.

Online Sales Prediction Using Machine Learning

* Designed and executed a machine learning model with high accuracy 89% that identifies products which will be purchased by customer using E-Commerce Dataset.
* Performed PCA and clustering in order to find variance in data. Machine learning models were applied for prediction.

**RMK College of Engineering and Technology, India**

**Bachelor of Engineering: Computer Science and Engineering,** August 2014 − June 2018

***Key Projects:***

Prediction of Natural Disasters Using Big Data

* Facilitated team project to determine information spread on social media was real or fake concerning Natural Disasters such as earthquakes and the Tsunami.
* Propounded a strategy of creating a local host for feeding new data and finding it as true.

**Certifications**

* Programming, Data Structures and Algorithms in Python by NPTEL
* Introduction to Modern Application Development by NPTEL
* Internet of Things by Internshala