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Rajesh E

Data Scientist

Objective:

Data Scientist with 4.2 years of experience executing data-driven solutions to increase efficiency, accuracy, and utility of internal data processing. Experienced at creating data regression models, using predictive data modeling. Possess Ph.D in Composites, Artificial Neural Networks, Linear Regressions and looking to leverage my knowledge and experience into a role as Data Scientist.

Profile Summary:

- ✓ 4 years of experience in Data Scientist.
- ✓ Worked with team, involved in large scale data analysis and creating data solutions and industry-specific products.
- ✓ Proficient in understanding and analyzing of data pertaining to various domains, build best-fit models based on the data and providing appropriate insights to business problems.
- ✓ Good knowledge in Data Analysis, obtaining insights from data, choosing appropriate Machine Learning/Data Mining algorithms.
- ✓ Proficient in grasping new technical concepts and utilizing them in an effective manner.
- ✓ Working with skills Data Analysis, Python, Machine Learning, Predictive Modeling, Statistical Modeling and Deep Learning.
- ✓ Experience in Supervised and Unsupervised Machine Learning.
- ✓ Sound knowledge in ANN and CNN.

Contact

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Education

1. Ph.D in Composites, Artificial Neural Networks and Linear Regressions from NIT Ripur in 2021 with CGPA 7.

2. M.Tech in CAD/CAM, from JNT University, Kakinada in 2010 with 74.5% with GATE Rank.

3. B.Tech in Mechanical Engg, from Vitam, Visakhapatnam in 2007 with 57.77%

Skills Possessed

Machine Learning skills	- EDA - Managing missing features and categorical data - Feature Scaling - Regression Models - Classification Models - Clustering
Python & its packages	- Numpy - Pandas - Matplotlib - Seaborn - Scipy
Deep Learning	- Natural Language Processing (NLP) - Artificial Neural Networks (ANN) - Convolution Neural Networks (CNN) - Keras (Tensorflow)
Visualizing Tools	Analyzing and Visualizing Data with Tableau
SQL	MySQL

WINMARINE CONSULTANCY SERVICES, Visakhapatnam

- ✓ Graduate Trainee (Ship Design by Auto Cad software), Feb 2008-July 2008.

Teaching Experience

- ✓ Has worked at various Engineering Colleges from Oct 2011 to June 2014 with designations from Adhoc Lecturer to Assistant Professor in Andhra Pradesh.
- ✓ Taught **Python** and **Machine Learning** subjects in my teaching experience.

IT Experience

Company	Designation	Duration
Mphasis	**Data Scientist**	**July 2017 – till date**

Project 1:

Project   : Home Insurance Fraud Detection
Duration of project   : July 2017 – Nov 2018 (1 years & 4 months)
Technology used   : Machine Learning
Company   : Mphasis
Team Size   : 13
Client   : AXA Insurance Company, London

About Client:

        Axa S.A. is a French multinational insurance firm. The head office is in the 8th arrondissement of Paris. It also provides investment management and other financial services.

Responsibilities

- ✓ Done advanced visualizations by seaborn, matplotlib and tableau for a better understanding among various parameters of home insurance.
- ✓ Design and implement machine learning, information extraction, probabilistic matching algorithms and models for fraud detection.
- ✓ Verifying insurance data quality via EDA techniques.
- ✓ Apply the data preprocessing methods such as finding missing data from raw data, encoding categorical data, splitting the data into training and testing and feature scaling.
- ✓ Build the model by Linear Regression, Lasso, Ridge and elasticnet regressions.
- ✓ Build the model by ANN, Clustering, Logistic, Naive Bayes and Support Vector Machine classification algorithms.
- ✓ Use of ensembling methods to build one optimal predictive model.

Project 2

Project	: Sentiment Analysis for imda movie ratings
Duration of project	: Nov 2018 – May 2020 (1 year & 6 months)
Technology used	: NLP
Company	: Mphasis
Team Size	: 16
Client	: IMDA, Singapore

About Client:

        The IMDA develops and regulates the converging infocomm and media sectors in a holistic way, creating a dynamic and exciting sector filled with opportunities for growth, through an emphasis on talent, research, innovation and enterprise.

Responsibilities

- ✓ Found stopwords from the dataset
- ✓ Performed some operations such as removing html tags, removing non-letter, convert higher case to lower case letters & split and removing stopwords.
- ✓ Done tokenization, Stemming methods, Lemmatization techniques and bag of words.
- ✓ Initialize the train model by word2vec by gensim.

Project 3:

Project	: Churn Detection for mobile network
Duration of project	: June 2020 – till date (1 years & 2 months)
Technology used	: Machine Learning
Company	: Mphasis

Team Size	**:** 9
Client	**:** Verizon wireless, United States

About Client:

Verizon wireless is a United States multinational mobile network firm. Verizon is the largest wireless carrier in the United States, with 121.3 million subscribers as of the end of Q 2 2021.

Responsibilities

- ✓ Done advanced visualizations by seaborn, matplotlib and tableau for a better understanding among various parameters of mobile network.
- ✓ Design and implement machine learning, information extraction, probabilistic matching algorithms and models for Churn detection.
- ✓ Verifying mobile network data quality via EDA techniques.
- ✓ Apply the data preprocessing methods such as finding missing data from raw data, encoding categorical data, splitting the data into training and testing and feature scaling.
- ✓ Build the model by Linear Regression, Lasso, Ridge and elasticnet regressions.
- ✓ Build the model by ANN, Clustering, Logistic, Naive Bayes and Support Vector Machine classification algorithms.
- ✓ Use of ensembling methods to build one optimal predictive model.

International Journals on Artificial Neural Networks and Linear Regressions

1. *Rajesh Egala*, Srinivasu Gangi Setti, "Influence (**ANN, Linear Regression**) of surface modifications of Castor oil fiber on mechanical properties of fiber reinforced Epoxy composites", Advances in Materials and Processing Technologies (2021) , Taylor & Francis, (Scopus, ESCI) (DOI:https://doi.org/10.1080/2374068X.2021.1959107)

2. *Rajesh Egala*, Jagadeesh G.V., Srinivasu Gangi Setti, "Experimental investigation and **prediction** (**ANN, Linear Regression**) of tribological behavior of unidirectional short castor oil fiber reinforced epoxy composites", Friction (2021), Springer, (SCIE, IF: 6.167). (DOI: https://doi.org/10.1007/s40544-019-0332-0)

3. *Rajesh Egala*, Srinivasu Gangi Setti, "**Identification of best network and transfer function** for **predicting** the mechanical properties of unidirectional long Ricinus communis L fiber reinforced epoxy composites for **ANN modelling**", International journal of Mechanical and Production Engineering Research and Development; Volume 10, Issue 6, 2020, Pages 440-450, (Scopus/Webof Science).