DEEPIKA GADHELLA THULASIRAM

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M.S. in **Business Analytics-Data Science Track**, University of Texas at Dallas

GitHub: https://github.com/Deepi20 WEBSITE : https://deepi20.github.io/

SUMMARY

- Highly experienced in **Machine Learning,Deep Learning**,**Artificial Intelligence-Computer vision,Natural Language Processing**,Predictive modeling, business analytics, data analysis ,strategic planning
- Proactively identified opportunities, defined data needs, build machine learning and Deep models- **Deep Neural networks- Convolutional Neural Networks, Feed Forward Neural Networks,Recurrent Neural Networks, Support Vector Machine, Random Forest, Gradient boosting,Decision Trees, Regression , LARS,GLM** that lead to better support business management and/or improve efficiency of tools.
- Expert in manipulating data programming tools like **Python(tensorflow,Keras,Pytorch,Theano, numpy, pandas, scikit-learn),Java, VBA, IPython**, Apache spark with Scala, SQL
- Exceptional ability to visually present and communicate data, analyses and findings using a variety of reporting, data analysis, and data visualization tools, such as **SAS Enterprise Miner, SPSS, Tableau, custom dashboards**.
- Participated in **various competitions** and **Data Challenges** and have secured the **top 10%**
- Earned a **Gold badge in Python** in the programming challenges conducted by Hackerrank.com

EXPERIENCE

NetJets

DATA SCIENTIST INTERN/MACHINE LEARNING INTERN — **May '18-Dec '18**

- Utilized machine learning techniques like **Random Forest**,**Linear Regression, HP Regression, Artificial Neural network, Decision Tree,Gradient Boosting, LARS** to create predictive models.
- Built **Deep Feed Forward neural networks, Convolutional Neural Networks using Keras and Tensorflow**, **Support vector machine (SVM)** to predict whether an invoice would result in a claim or know based on the past data.
- These models helped the team reduce the time they focus on non-claim invoices by shifting the focus on those which are most likely to have claims.
- **Text Mining-NLTK,Bag of Words, Word2Vec models were built using** the text from invoice statements to identify the parts involved

Wipro Technologies

DATA SCIENTIST — **Jan '14-July '15**

- Performed **Data wrangling** -gathered, selected, and transformed complex data using Python(Jupyter Notebook)
- Utilized various machine learning techniques and algorithms, such as **k-NN, Naive Bayes, SVM, Decision Forests**, etc to **build models that predicted** the customer attrition & analyzed various factors that influenced the attrition rate
- Suggested recommendations to the client to reduce the attrition rate based on the insights from the analysis. These recommendations helped reduce attrition rate by 6%

KGISL

CUSTOMER/MARKETING DATA ANALYST — **Aug '15- Nov '15**

- Built the database containing demographics of information about the customers and devised the metrics for the analysis, scoring and quality assessment of the customer data
- Employed statistical techniques like maximum likelihood estimation, multiple data imputation to impute missing data
- Applied segmentation techniques such as K- means clustering, Support vector machine(SVM) & Latent Class Analysis(LCA) to group individual customer profiles into different "market segments" to identify important information about key customers.

MACHINE LEARNING TECHNIQUES USED

- SVMs
- Random Forest
- Gradient boosting
- AdaBoost
- Decision Trees
- Multivariate linear Regression
- Logistic Regression
- Naive Bayes algorithm
- k-nearest neighbors

Frameworks used:

PyTorch
Sklearn
Numpy
Pandas
Tensorflow
Keras
H20.ai

DEEP LEARNING TECHNIQUES USED

- Feed Forward Neural Networks
- Convolutional Neural Networks
- Recurrent Neural Networks
- LSTM
- Natural Language processing
  -NLTK,
  -Bag of Words,
  -Word2Vec

Frameworks used:

PyTorch **Theano**
CV2 **Caffe**
Tensorflow
MXNet
Keras
Gensim
NLTK

SKILLS

PROGRAMMING
- Python - **Tensorflow, Keras,Pytorch Numpy,pandas, scikit-learn**,
- **H20.ai** & **Fast.ai**
- Apache spark with Scala
- Java
- VBA

CLOUD
- AWS lambda
- AWS S3
- Amazon Sagemaker

DATABASE TOOLS
- MYSQL
- SQL server 2008
- MS Access
- Oracle SQL
- PL/SQL
- ,MySQL workbench

VISUALIZATION TOOLS
- Tableau
- Alteryx
- Qlik

PROJECT MNGMT.
- MS Project
- RTC
- MS Visio
- IBM Rational Rose
- Visual Paradigm

DECISION TOOLS
- SAS Enterprise-miner
- XLMiner
- Advanced Excel
- SPSS, IBM Biginsights
- R

BI TOOLS
- SAP Business Objects- UDT, IDT
- Webi
- MS Access

BIG DATA TOOLS
- **Hadoop**
- **Hive**
- **Spark**

RECOMMENDATIONS

"Deepika is an analyst with great potential.
She has tremendous desire to learn and takes feedback very well. She is skilled with machine learning and effective at model creation. She is a team player who is happy to put in the extra time on important work. She has demonstrated a commitment to positive results and is determined to succeed."
It was a pleasure to work with her.

Michael Hosking,
Manager
BI & A, NetJets

"Deepika joined our Business Insights & Analytics group as an intern over the summer of 2018. During that time, she developed a model of aircraft fuel consumption, using detailed flight information from dispatch releases as well as other factors. Over the summer, she worked diligently to understand the data and the fundamentals of flight dynamics so that she could improve the model.
Deepika is a hard worker and sets high standards for herself. She is naturally curious and focused on self-improvement. I would recommend her for any analytical position requiring technical modelling, such as machine learning."

Jason Schenk
Director
BI & A, NetJets