



Anvesh Muttavarapu | (815)5176048 | anvesh2953@gmail.com

PROFESSIONAL SUMMARY

- Certified Data science professional with excellent programming skills in R and Python.
- Experienced in applying predictive analytics with excellent knowledge of machine learning concepts.
- Adept at writing SQL queries and deriving brilliant insights from data.

EDUCATION

MASTERS (MANAGEMENT INFORMATION SYSTEMS) | 08/2015-12/2016 | NORTHERN ILLINOIS UNIVERSITY (3.8/4.0)

BACHELORS (COMPUTER SCIENCE) | 07/2008-05/2012 | VELLORE INSTITUTE OF TECHNOLOGY (3.5/4.0)

CERTIFICATIONS

- **Data Science Associate** (DELL EMC)
- **EMC Associate, Data Science and Big Data Analytics** (DELL EMC)
- **Intro to Analytics using SQL** (Leada)
- **Machine Learning** (Coursera)
- **Data Science courses using R** (Datacamp)
- **Machine learning Foundations: A Case study Approach** (Coursera)

PROJECTS

Recommender Systems

- Computed Regularized Cost function and Regularized gradient for collaborative filtering.
- Trained an algorithm based on Cost function and gradient to make movie recommendations.

Predictive Analysis of Likelihood of getting a Loan

- Developed two models one with demographic information and other without demographic information and determined that the personal demographic information such as Race, Ethnicity and gender doesn't influence the likelihood of getting loan.
- Obtained accuracy of models in terms of thresholds (50% and 75 %) and Model validation is done using Confusion matrix and ROC curves with Area under the curve - 0.72.

Detecting Anomalous behavior in Server Computers

- Used Gaussian distribution to develop an anomaly detection algorithm by estimating parameters of the Gaussian distribution.
- A threshold value is selected to classify the anomalies using F1 scores on cross validation set.

Hand written Digit recognition

- Applied one-vs-all logistic regression model to build a multi class classifier and achieved a training set accuracy of 94.9%.
- Implemented feed forward propagation and Back Propagation algorithm for Neural Network to use weights and learn parameters for prediction.

Image compression using K-means

- Using K-means the number of colors on the image is reduced to 16.
- Compressed the original image by a factor of 6.

EXPERIENCE

JUNIOR CONSULTANT | **PARENT PETROLEUM** | 01/2016-05/2016

- SSIS data integration between Accounting Software and Microsoft CRM 2016 for Daily synchronization.
- Integration includes designing workflows and data selection based on business needs, creating data flows in Visual studio and scheduling the integration.

PROGRAMMER ANALYST | **COGNIZANT** | 05/2012-07/2015

- Worked on various machine learning techniques
- Experienced in data exploration using packages such as Numpys and Pandas.
- Designed ETL workflows using Informatica and worked extensively on Oracle Database.

TECHNICAL SKILLS

- SQL, Java, R, Python, C++.
- MATLAB, Tableau, Gephi, IBM Watson, Microstrategy, Microsoft Dynamics, Informatica, Oracle, Linux, Microsoft Excel.