KRISHNA GOLLAPUDI

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Summary:

Data Science Graduate with 3 years of professional and research experience in Data Science and Analytics
Proficient in Python, R, SQL, Tableau with the ability to translate data into meaningful insights solving business problems
Expertise in Data Mining, Statistical Modeling, Information Visualization, Text Analytics, Deep Learning, Natural Language Processing

EDUCATION

Master of Science: **Information Technology, GPA: 3.9** **Jan 2017 - May 2018**
University of North Carolina at Charlotte – Charlotte, North Carolina

Bachelor of Engineering: **Electronics and Communications** **Aug 2011 - May 2015**
Osmania University – Hyderabad, India

WORK EXPERIENCE

DATA SCIENTIST INTERN, ProLytics LLC, Charlotte, North Carolina, USA **Jan 2018 – Apr 2018**

- Performed advanced statistical analysis and predictive modeling on MLB, NBA Draft data (3 years of NBA data) and NCAA college stats
- Adapted Machine Learning algorithms in predicting player's match up analysis based on their game position, historical NBA data
- Data wrangling of MLB data and predictive analysis on the performance of each player in future matches
- Developed an LSTM RNN to project player's expected performance in the draft over 2-3 years
  Technologies: Python, H2O, XGBoost, LSTM RNN, Classification Models

ASSOCIATE SOFTWARE ENGINEER, Accenture, Hyderabad, India **Mar 2016 - Dec 2016**

- Contributed as a Database Developer with Global Resource Management project for client: Microsoft with Agile methodology
- Modified the web test scripts according to the API changes and created pipelines in Azure Data Factory(ADF), SQL Jobs
- Executed constant/load tests in azure which included performance monitoring, performance test analysis, performance tuning
  Technologies: SQL Server Management Studio, Microsoft Visual Studio, Microsoft Azure, C#

SOFTWARE ENGINEER INTERN, HCL CDC, Hyderabad, India **Dec 2015 – Feb 2016**

- Worked on an Internal project of HCL for Customer Query Tracking System
- Responsibilities include system design, creating E-R diagram, tables and stored procedures
  Technologies: MySQL

SYSTEMS ENGINEER TRAINEE, Infosys Limited, Mysore, India **June 2015 – Nov 2015**

- Trained on PYTHON, JAVA, HTML, CSS3, JavaScript
- Designed and developed an SQL Database system for an internal Business Enterprise Application
  Technologies: Python, Oracle SQL, Java

TECHNICAL SKILLS

Technologies:	Python, R, SQL, Tableau, MS Excel, WEKA, Java, SAS, Microsoft Azure, AWS, Google Cloud, Hadoop, Pig
Statistics/Machine Learning:	Regression, Classification, Deep Learning, Rule Mining, ANOVA, NLP, Text Analysis, Bayesian statistics, TF-IDF, Information Retrieval, Forecasting, Survival Analysis, Time-Series Analysis
Libraries (Python and R):	Pandas, Scikit-learn, matplotlib, cluster, keras, xgboost, tidytext, Tensor flow, Convolution2D, H2O
Database:	MySQL, Oracle SQL, SQL Server Management Studio, Teradata

PROJECTS

Predict Housing Prices – Kaggle competition (Supervised Machine Learning**) | Tools Used:** *Python, Tableau* **Feb 2018 – Mar 2018**

- Achieved an accuracy of 85 percent in predicting housing prices of King county housing data using Gradient Boosting.
- Performed exploratory data analysis, feature scaling, k-fold cross validation and grid search to achieve the most approximate prediction.
  Techniques Used: Feature Scaling, k-fold, Gradient Boost, Grid search

Surprising Discoveries for Online Health Information (Unsupervised Machine Learning, NLP**) | Tools Used:** *R* **Sept 2017 – Nov 2015**

- Developed a computational approach using R programming to identify "surprising" pattern from a news corpus related to diabetes
- Applied the unsupervised machine learning techniques to achieve the surprising discovery from given text corpus of 10000 documents
  Techniques Used: Clustering, Cosine Similarity, PAM & Word Cloud, SK-means

Hire Heroes USA Client Management (Data Analysis and Visualization**) | Tools Used:** *SAS, R, Excel and Tableau* **June 2017 – July 2017**

- EDA for Data Insights and Logistic Regression, Decision Tree were performed at each stage to improve the process of hiring
- Text mining was used to generate features and predictive modelling techniques were used to model the quantities of interest
  Techniques Used: Exploratory Data Analysis, Predictive Analysis, Regression Analysis, Text Mining, Decision Trees, Tableau Visualization

Movie Recommendation Search Engine (Recommender System**) | Tools Used:** *R, Shiny* **Aug 2017 – Sept 2017**

- Prepared a collaborative filtering recommender (CFR) system for recommending movies to users based on genre
- The Similarity Calculation Method was based on Cosine Similarity and the Nearest Neighbors was set to 30
  Techniques Used: Association Rule Mining, Cosine Similarity

Lending Club - Loan Status Prediction |Tools Used: *Python, Jupyter Notebook, Scikit learn, Pandas, Numpy* **Jan 2017 – Mar 2017**

- Performed feature selection, extraction, built classification and ensemble methods to predict borrowers who tend to default
- Applied cross validation to select best parameters of the model and obtained 91% prediction accuracy using Ensemble methods
  Techniques Used: feature selection, feature extraction, classification