PRANEETH BOMMA

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OBJECTIVE

Graduate student seeking a full-time position with 2 years of Academic and Professional experience in Data Science & Analytics

EDUCATION

Master of Science in Information Technology, GPA 4.0/4.0 **Jan 2017–May 2018**
The University of North Carolina at Charlotte, North Carolina

Bachelor of Technology in Electronics and Communications, GPA 3.5/4.0 **Jul 2012 – Aug 2016**
Jawaharlal Nehru Technological University – Hyderabad, India

TECHNICAL SKILLS

Programming:	SQL, R, Python, Core Java, SAS, Hive, Pig, Scala, C
BI/Analytics Tools:	MS Excel, Tableau, Google Analytics, WEKA
Web Languages:	HTML5, CSS3, jQuery, JavaScript
Databases:	MySQL, PL/SQL, Oracle SQL, MS SQL, Postgresql, NoSQL, Hbase
Cloud Services:	Amazon Web Services, Microsoft Azure, Google Cloud, Cloudera
Machine Learning:	Regression, Classification Models, Deep Learning, ANOVA, PCA, Bayesian Statistics, NLP, Time-series
Libraries(R & Python):	Pandas, Scikit-Learn, Numpy, Plotly, NLTK, TensorFlow, Matplotlib, Pytorch, caret, forecast, glmnet, ggplot2, dply*r*

CERTIFICATIONS

- Coursera Certifications: SQL for Data Science, Getting and Cleaning Data, R Programming, Mastering Data Analysis in Excel
- Google Analytics: Google Analytics Individual Qualification, Advanced Google Analytics and Oracle Certified Java SE6 Programmer

PROFRSSIONAL EXPERIENCE

DATABASE DEVELOPER INTERN, *Informative Technologies Inc,* *Charlotte, NC, USA* **Jan 2018 – Present**
Project Name: LOOKIT - A fashion app that allows the users to get opinions from their peers on outfits

- Collaborated with client and development team to set scope, specifications and identify new requirements for the application
- Created entity relationship (ER) diagrams, developed a relational database and implemented database objects such as views, indexes, triggers & stored procedures for a fashion industry based start-up inspired by design concepts from Pinterest, Instagram, and Tinder
- Ensured all database programs met client and performance requirements
- Designed a ranking and sorting algorithm to order images based on parameters of relevance including location, timestamp and rating
- Developed Web service API's for a mobile application to handle back end requests and responses
- Deployed JAR files into AWS server and tested API responses using Postman. Experienced in AWS services like EC2, RDS and S3
- Involved in various phases of Software Development Life Cycle (SDLC) and Agile/Scrum methodologies including analysis, design, testing, implementation and maintenance

ACADEMIC PROJECTS

Lending Club - Loan Status Prediction -Kaggle (Supervised Machine Learning) **| Tools Used:** Python, Scikit Learn, Pandas

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

Finding Surprising Documents on Online Health Information (Unsupervised Machine Learning, NLP) **| Tools Used:** *R*

- Developed a computational approach using R programming to identify "surprising" news from a news corpus related to diabetes
- Applied unsupervised machine learning techniques to get the surprising elements from a text corpus of 10000 documents

Spatial and Time-Series Analysis of SFO Crimes (Time Series Analysis) **| Tools Used:** Python, Matplotlib, Pandas, Seaborn, Numpy and ARIMA

- Performed spatial distribution over time and time series analysis for a 15 year dataset of reported incidents from SFPD
- Trained and fine-tuned an ARIMA model to forecast the number of theft incidents per month

Hire Heroes USA- Client Management (Data Analysis and Visualisation) **| Tools Used:** *SAS, R, Excel and Tableau*

- Developed a Multiple Regression Model which explains 27% of the variation in how quickly a veteran gets hired
- Used Text mining to categorize data into text topics and decision trees to explain correlation between client & employers of HHUSA

CONTINENTAL AG – (HR Predictive Modeling Data Analytics**)| Tools Used:** R, SAS, Python, plotly, Excel and Tableau

- Applied Predictive Data Analytics on Attrition, Absenteeism and Time to hire data from Continental AG
- Decision Trees, Logistic Regression and Random Forest were implemented on the data to come up with models and predictions
- An Interactive dashboard with python framework dash by plotly was coded and deployed on Heroku for external access

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

- 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 most approximate prediction

Twitter Text Analysis – Movie Success (Sentiment Analysis) **| Tools Used:** *Python, Tweepy API, NLTK*

- Tweets crawled using the Tweepy API in Python were pre-processed to create a corpus for analysis using NLTK module
- Performed sentiment analysis & created a tag cloud of top 50 words in tweets to understand the audience sentiments about movie