

VENKATESH UMAMAHESWARAN

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Graduate Student in Information Technology with a concentration on **Advanced Data & Knowledge Discovery**. Trained as a **Data Analyst** with hands-on experience in handling diverse data sets, programming tools like **SAS, R, Python** and analytical methods, algorithms, and capabilities. Actively seeking opportunities in the field of **data and business analytics** to apply my skills and help organizations make better decisions.

EDUCATION

Master of Science: Advanced Data Knowledge Discovery, CGPA 4.0/4.0

Jan 2017 - May 2018"

University of North Carolina at Charlotte – Charlotte, North Carolina

Bachelor of Engineering: Electrical and Electronics, CGPA 8.62/10

Aug 2011 - May 2015

Anna University – Chennai, Tamilnadu, India

TECHNICAL SKILLS

Programming:	SAS, R, Python, UNIX, LINUX, SQL, Hive, Pig, Octave, Scala, Advanced Java, C, C++ and MATLAB
BI/Analytics Tools:	MS Excel, Hadoop MapReduce, Elasticsearch, TensorFlow, Theano, MLlib, NLTK, Tableau, Gephi and Qlikview
Web Languages:	HTML5, CSS3, jQuery, JavaScript, AngularJS and Bootstrap
Databases:	MySQL, Oracle SQL Developer, PL/SQL and Teradata
Cloud Services:	Amazon Web Services, Google Cloud, Microsoft Azure, IBM Bluemix, Cloudera
Statistics/Machine Learning:	Linear/Logistic Regression, ANOVA, Cluster Analysis, PCA, Sentimental Analysis, Time-series analysis

WORK EXPERIENCE

APPLICATIONS DEVELOPER, Inautix Technologies, A Bank of New York Mellon Company, Chennai

Jun 2015 - Dec 2016

Project Description: 'BDS Support Tool' – A Support portal for monitoring and analyzing Broker Dealer Services functioning of BNY Mellon.

Roles and Responsibilities:

- Interpreted the market trade data, analyzed the results using statistical techniques and provided ongoing reports to improve BNY Mellon's overall data quality.
- Created an important plug-in using Java and SQL that successfully monitors and alerts if there is a process failure and if the batch files have not been received/ received late in the day, thereby effectively decreasing the occurrence of P1 issue.
- Developed Java part of plug-ins in the portal and UI monitoring screens with front end web technologies.
- Responsible for creating and maintaining a database of client and security level data with a goal of initiating trade ideas, assist in the formulation of strategy and to monitor/analyze risk buckets.

INTERNSHIP TRAINEE, Inautix Technologies, A Bank of New York Mellon Company, Chennai

Feb 2015 - May 2015

- Acquired knowledge on Financial servicing and US Financial markets.(Completed Level Zero Certifications in Financial Markets)
- Learnt risk management and behavioral finance principles to understand the functioning of securities, insurance, and banking industries.
- Developed a full portfolio management project using REST services, played the role of scrum master for the project team.

PROJECT WORKS

Hire Heroes USA Client Management| Tools Used: SAS, R, Excel and Tableau

June 2017 - Aug 2017

- Applied Big Data and Analytics techniques to help a non-profit organization HHUSA, better understand and optimize factors that affect their client management process, staff activities and the employment opportunities offered to veterans.
- 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.

Predictive Analysis for a Supermarket Data| Tools Used: SAS E-Miner, Tableau

June 2017 - July 2017

- Applied Predictive Analytics for a Supermarket which plans of selling organic products, provides coupons for its loyalty program participants and wants to determine which customers are likely to purchase those products.
- Used predictive modeling Algorithms like Decision Trees, LOGIT to predict the Response & built an ROC curve to determine the best model.

Techniques Used: Decision Trees, Logistic Regression, Predictive Modelling, Tableau Visualization.

Twitter Text Analysis - Movies Success| Techniques & Tools Used: Python, TweepyAPI, NLTK, matplotlib

May 2017 - July 2017

- Tweets crawled using the Tweepy API in Python were pre-processed to create a corpus for analysis using NLTK module.
- Sentiment Analysis was then performed on the corpus to understand, the sentimental influence of that movie and a tag cloud of top 50 words in the tweets was created to understand the audience sentiments about the movie.

An Electronic Medical Record for an Outpatient Clinic| Tools Used: MySQL

Jan 2017 - May 2017

- Designed and developed a complete OLTP database for an Outpatient Clinic that can efficiently store, retrieve, manipulate, and query records.
- Implemented Authentication and Role based access control to all the data tables & used views and indexes for easy data access.

Portfolio Management Game| Tools Used: Eclipse IDE

Apr 2015 - May 2015

- A Full Stack design project (Front-end web, back end, DBMS) to implement a working portfolio prototype for viewing, buying and selling shares.
- Played the role of 'SCRUM MASTER' by interacting with business analyst and converted business requirements into system requirements. Worked on Data gathering and data analysis, and designed the front end of the project.

Technologies Used: Java RESTful Web Services, MySQL, Angular JS, JavaScript, HTML, CSS, JSON

AWARDS AND ACHIEVEMENTS

- **Teaching Assistantship** for the course 'Human-Computer Interaction' at UNC Charlotte under professor Dr.Heather Lipford
- **Star Award** for taking outstanding initiatives in the project to deliver effective results during Q3 of 2016 at iNautix Technologies.