

## Krishna Kiran Duvvuri

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### Summary

Business Analytics Masters graduate – Experienced Data analytics professional – Programmer

- 4+ year experienced data analyst with experience working in **Finance (Risk), Banking and Insurance** projects.
- Experience in Statistical Modeling and analysis, data visualization, programming and project management.
- Proficient in Statistical methods and Data mining techniques such as Linear and **Logistic Regression**, CART, **Clustering analysis**, Random forests, Principal component analysis, Factor analysis, Discriminant analysis, Neural networks, SVM etc., **Time series Forecasting**, Simulation, **Optimization models** and **Data visualization**.
- History of introducing and implementing innovative practices that led to optimized processes.

Tools:

- **Statistical Analysis tools:** SAS, R, SQL, MS Excel, Python
- **Reporting and Data visualization tools:** Tableau, MS office
- **Other tools:** Arena, C, C++, Java, HP QTP, Quality Center.

### Education

University of Cincinnati, Carl H. Lindner College of Business, Cincinnati

August 2014 - May 2015

**Master of Science - Business Analytics**

- Graduate Scholarship recipient
- GPA – 3.65/4

SNIST, Jawaharlal Nehru Technological University, India

August 2006 – May 2010

**Bachelor of Technology – Information Technology (Computer Science)** • GPA – 3.73/4

### Professional Experience

**Tata Consultancy Services, Hyderabad, India**

Systems Analyst/Engineer

September 2010 – July 2014

Client: A US Fortune 500 diversified financial services group. Worked on various initiatives in **Banking** and **Insurance** domains.

Credit Risk Modeling:

- Worked on building financial models such as PD (Probability of default), and LGD (Loss given default) for loss mitigation framework.
- Involved in project dealing with PPNR process for DFAST and CCAR stress testing.
- Worked on Statistical models utilizing data mining and predictive modeling techniques such as Logistic regression, linear regression, PCA, CART etc.
- Worked on Time series forecasting models such as AR, MA, ARIMA, and GARCH to forecast quarterly statistics etc.
- Also worked on model validation and reporting using tools such as SAS and R.

Data Analyst: (Insurance and mobility sectors)

- Worked on a logistic regression model to predict claims that are likely to move into litigation.
- Created a data optimization tool – TCOG which optimizes data combinations to assist Quality Assurance teams. This tool led to a significant reduction in testing effort for a Life Insurance project. Received 'Star of the Quarter' award for this work and the tool was also incorporated into the Central Tool Repository.
- Worked on data cleaning, exploratory data analysis(using R)
- Designed and developed interactive Tableau dashboards utilizing features such as data blending, calculations, hierarchies, filters etc. Developed a time varying Project Metrics dashboard and set up data refreshes.

IT Analyst/Programmer:

- Developed web based automation scripts for various frameworks.
- Interacted with Clients for data gathering, weekly status analysis huddles and documentation to translate user stories and requirements into technical solutions.
- Successfully delivered cloud based projects such as Sales Force customization, Automated Medicare product acquisition etc. and mobile environment projects such as Insurance quotes delivery on ios, android platforms etc.
- Organized and delivered several knowledge transfer sessions on agile process methodology and assurance practices to new recruits.

**Academic Projects:**

- Market basket Analysis
  - Worked on groceries data having about 10,000 transactions spread across 169 item categories. Performed market basket analysis to come up with association rules to assess which products go together.
- Visualizing Indian Cricket Team's chances for the 2015 Cricket World cup
  - Story board analysis of various aspects of Indian cricket team with focus on the analysis of their chances in 2015 cricket world cup. Analysis was done at team level, opposition level, geographic location level and skill level to thoroughly ascertain the possibilities.
- Predicting subscription of a banking product via direct marketing
  - Built a logistic regression model and support vector machine model using SAS and R to predict the subscription. Performed data cleaning, exploratory data analysis and variable selection for the same.
- Sentiment Analysis on Twitter data
  - Built a text analytics model to identify word associations and trends. Performed cluster analysis and used Bag of Words technique.