Mitesh Gadgil

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Objective

Seeking full time opportunities where software skills can be utilized for data analysis and machine learning tasks

Education

University of California, San Diego	**San Diego, CA**	**Expected Dec 2016**
M.S. in ECE (Major: Intelligent Systems)		GPA: 3.58/4.0
BITS Pilani	**Goa, India**	**June 2015**
B.E. (Hons.) in Electrical & Electronics Engg.		GPA: 8.82/10.0

Skills

Programming: Python, R, Apache Spark, C, SQL, Apache Hadoop
Machine Learning: Linear and Logistic Regression, SVM, Decision Trees, Boosting & Ensembling
Soft skills: Data visualization, Presentation & Effective communication of analysis findings

Relevant Courses

- Exploratory Data Analysis & Statistical Inference
- Big Data Analytics using Spark
- Statistical Learning
- Information Visualization* (currently enrolled)

Project Experience

Text and Twitter Data analysis using Apache Spark
- Developed an application using PySpark API to deploy Spark- distributed framework and perform trend analysis on 80 GB of Twitter data
- Programmed an application to parse the most frequently occurring N-grams in the text of a novel using PySpark API and regex module
- Worked with Spark SQL to load data in various formats into Spark data frames for performing Big Data analytics

Predictive Modelling for insurance claim approvals
- Performed feature selection on the 133-variable dataset by exploration, correlation analysis and random forest
- Fitted a 'boosted trees' model to the data using R-package- 'xgboost' and tuned its parameters by cross validation to obtain a model adjudged as the best model among 25 other student teams
- Acquired experience of implementing the predictive modelling workflow and creating data visualizations

Survey Data Analysis and Inferencing
- Performed point and interval estimation of the population parameters from the sample using bootstrapping
- Implemented decision tree algorithm to identify findings from the survey data and presented them as recommendations so as to help the design and decision-making process
- Researched the process of survey design and the possible sources of bias in survey responses

Work Experience

Software Engineer, Intern	**Tonbo Imaging Pvt. Ltd., India**	**January - June '15**

- Developed applications in a Linux environment to interface GPS module and OLED micro-display
- Implemented geo-tagging and automated brightness control for display of the imaging system in its codebase

Software Engineer, Intern	**Mapyn Technologies Pvt. Ltd., India**	**May - August '13**

- Contributed to the firmware development of the 'Smart-Lift' project, which was developed in C++
- Implemented software to add safety features to the product e.g.: detection of spike in current drawn by the motor

Leadership & Teamwork

Electronics Team Lead, College Robotics Team
- Led the robotics team in its debut at the national robotics competition- RoboCon 2013 and subsequently in RoboCon 2014, where our team stood 32nd among 90 teams
- Planned resource and work allocation among team members to ensure coordinated and timely progress

Team Projects for Data Analysis course
- Worked on assignments for the 'Data Analysis & Inference' course in a team of 3 students and earned an A+ grade
- Shared coding responsibilities and developed good interpersonal communication skills to convey technical ideas and opinions in a clear and concise manner