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MITESH GADGIL

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Objective

Seeking a **full**-**time** position where software skills can be utilized for **Data analysis & Machine Learning**

Education

UC San Diego	**San Diego, CA**	**Expected March '17**
Masters in Electrical & Computer Engineering (Major: **Intelligent Systems**)		**GPA**: 3.58/4.0

BITS Pilani	**Goa, India**	**June '15**
Bachelor of Engineering (Hons.) in Electrical & Electronics		**GPA**: 8.82/10.0

Skills

Programming and Tools: Python, R, Apache Spark, SQL, Tableau, MATLAB, C, Microsoft Excel
Machine Learning Techniques: Regression, Classification, Clustering, Random Forest, Boosting

Relevant Coursework

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

Work Experience

Graduate Teaching Assistant   **University of California, San Diego**   **June '16 - Present**
- Conduct weekly physics labs involving **data collection** and **error analysis** in MATLAB for a class of 30 students
- Communicate complex signal processing concepts to a class of 100 students, in an easy to follow manner

Software Engineering Intern   **Tonbo Imaging Pvt. Ltd., India**   **Jan – June '15**
- Designed experiments and a data collection method to evaluate the performance of 2 temperature sensors
- Analysed the experimental data using **Excel** and drafted a **data-driven recommendation** for the VP Engineering

Software Engineering Intern   **Mapyn Technologies Pvt. Ltd., India**   **Mar – May '13**
- Conceptualized 'smart' safety features for a motorized platform used to lift industrial loads
- Implemented a **linear regression** model which predicted weight of the load using current drawn by the motor

Projects

Loan Granting Binary Classification   **August '16**
- Built a model to predict whether an applicant will repay or default on a loan based on data about the applicant
- Formulated the **end-to-end modelling** process for the data(255,000 rows & 19 features) using **IPython notebook**
- Achieved an accuracy of **84.7%** using **Random Forest** model and interpreted feature importance from the model

Analysing Twitter Data using Spark   **May '16**
- Analysed the 10 most frequently used tokens in tweets of various user groups to infer their opinions and beliefs
- Wrote a script using **PySpark** that deployed an Amazon cluster to mine **20 GB** of twitter data in under 2 minutes

Predictive modelling for Insurance Claim Approvals (Kaggle Contest)   **March '16**
- Trained a model which predicts the probability that an insurance claim can be expedited for approval
- Performed feature exploration and selection on the anonymized data; trained an **XGBoost** model in **R**
- Achieved 1298th (**Top 45%**) place among 2900 participants in this competition- my first Kaggle contest