

SAURABH KULKARNI

CONTACT INFORMATION	linkedin.com/in/saurabhkulkarni2312 saurabhkulkarni2312.github.io	saurabhkulkarni2312@gmail.com Ph.No: +1-858-729-8148
EDUCATION	University of California San Diego, <ul style="list-style-type: none">• MS. Intelligent Systems, Jacob's School of Engineering (GPA: 3.5/4)• Certificate: Micro MBA, Rady School of Management, UCSD• Received grades A+ in Data Analysis grad course, A in Recommender Systems course Birla Institute of Technology and Sciences, Pilani, <ul style="list-style-type: none">• BE. Electrical and Electronics Engineering (GPA: 8.35/10)	
WORK EXPERIENCE	Graduate Intern, IgrenEnergi, Inc Aug 2016 - Dec 2016 <ul style="list-style-type: none">• Implemented predictive models to predict power for PV array using weather data, solar data, panel characteristics and shading patterns in Python. Undergraduate Intern, Intel July 2014 - Dec 2014 <ul style="list-style-type: none">• As part of Intel's telematics team, I performed sensor-fusion by combining 3 sensor data: accelerometer, gyro and speedometer to predict real time g-force in 3-dim and implemented a rudimentary inertial navigation system.• Implemented a pilot system on a Raspberry Pi platform using Python.	
RELEVANT SKILLS	Languages and Tools: Python, MATLAB, R, SQL, Spark, C, Tableau, Linux, Git Machine Learning: Data cleaning, visualization, feature engineering, data modeling and tuning, validation Concepts: Bayesian statistics, probability, optimization, ensembling, clustering, regression, classification, neural networks	
RELEVANT PROJECTS	Predictive Modelling for Insurance Claim Approvals <ul style="list-style-type: none">– Implemented an end-to-end R-based data solution to classify insurance claims in an imbalanced dataset with 133 variables.– Performed data cleaning, feature selection– Implemented random forest and xgboost and logistic regression– Analyzed performance of models. Achieved a logloss score of 0.456 using xgboost. Handwritten Digit Classification <ul style="list-style-type: none">– Trained and analyzed 3 models to identify digits in MNIST Image Dataset– Multivariate Bayesian classifier, gradient descent using softmax and feed-forward multi layered neural net with backprop were implemented in Python.– Achieved a best accuracy of 96.8% on the NNet. Explored change in response for different network topology, activation functions and batch size. Amazon Reviews Recommender System <ul style="list-style-type: none">– Built a recommender systems to make ratings predictions and estimate review helpfulness for a given database of Amazon reviews.– Implemented latent factor models using alternating LS– Optimized prediction for its hyperparameters– Achieved an MSE improvement of 28% compared to naive predictive model Transfer Learning using ConvNets <ul style="list-style-type: none">– Implemented classification on CalTech 256 and UrbanTribes Datasets using a VGG16 CNN Model, using Keras-Tensorflow on Python.	
LEADERSHIP	Led a team of 3 TAs and 8 tutors as head teaching assistant in the Intro to Analog Design course at UCSD. Conducted weekly tutoring sessions for a class size of 120 students	