

SAURABH KULKARNI

CONTACT INFORMATION	linkedin.com/in/saurabhkulkarni2312 saurabhkulkarni2312.github.io	saurabhkulkarni2312@gmail.com
EDUCATION	University of California San Diego, <ul style="list-style-type: none">• MS. Intelligent Systems, Jacob's School of Engineering• Certificate: Micro MBA, Rady School of Management, UCSD Birla Institute of Technology and Sciences, Pilani, <ul style="list-style-type: none">• BE. Electrical and Electronics Engineering	
WORK EXPERIENCE	Graduate Intern, IgrenEnergi, Inc • Key Responsibilities: Develop power output forecasting models for PV array using shadow effects weather data, irradiance data and PV panel characteristics. Evaluate models for actual data collected on the pilot site. • Develop a data-driven diagnostic backend to identify system faults based on acquired data. Tools: Python and C++	August 2016 - Present
	Undergraduate Intern, Intel • Developed a sensor-fusion based g-force evaluation and inertial navigation system. • Implemented a pilot system on a Raspberry Pi platform using Python and Numpy, Scipy modules	July 2014 - Dec 2014
RELEVANT SKILLS	Languages and Tools: R, Python, SQL, C++, MATLAB, Tableau, PySpark Machine Learning: Adaptive filtering techniques, multivariate regression, supervised and unsupervised classification, tree-based ensembling, boosting, Bayesian generative models Relevant Courses: Statistical Learning, Data Analysis using R, AI using graphical models, Computational Modeling in Cognition, Digital Signal Processing, Parameter Estimation, Computer Vision, Recommender Systems (ongoing), Neural Networks (ongoing), Data Mining using Spark (ongoing)	
RELEVANT PROJECTS	Predictive Modelling for Insurance Claim Approvals • Implemented a R-based robust rare class classification model to accelerate claims management processes of BNP Paribas Cardif. • Significant variables were identified and the classification performance of random forest and xgboost with respect to the base case of logistic regression.	March 2016
	Handwritten Digit Classification • Implemented two models: Multivariate Gaussian generative models and feed-forward multilayered Neural Network model to classify images of handwritten digits of MNIST dataset and the two results were compared with the base case of logistic regression. • Tools: Python with scipy, sklearn and seaborn packages	Apr 2016
	Transfer Learning using ConvNets • Implemented classification on CalTech 256 and UrbanTribes Datasets using a pretrained CNN Model. Explored the effects of using different output activation functions, decreasing depth of the network and performed visualization for different filters. • Tools: Tensorflow and Keras on Python3	Jan 2017
	Amazon Reviews Recommender System • Built a recommender systems to make ratings predictions related to reviews of Clothing, Shoes, and Jewelry on Amazon. • Compared the performance of latent factor models with simple collaborative filtering on the dataset. Tuned the model for optimal hyperparameters. • Tools: Python with sklearn package	Feb 2017