SAURABH KULKARNI

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Education	 University of California San Diego, MS. Electrical and Computer Engineering (Specialization: In Birla Institute of Technology and Sciences, BE. Electrical and Electronics Engineering (GPA: 8.35/10) 	ntelligent Systems) (GPA: $3.5/4$)
Work Experience	 Graduate Intern, IgrenEnergi, Inc – Explored solar forecasting techniques using device data, weat patterns in Python. Project was implemented in R and Pyth 	
	 Co-Founder and Tech Lead Co-founded a company in medical devices space (Sattva). S 2015 by Stanford Business School and FICCI at IIGP 2015. Developed a low-cost portable solution for fetal monitoring in 	(Results Link)
	 Undergraduate Intern, Intel Implemented a accelerometer (ADXL345) and gyro (ITG3200 system using Python and Octave. Pilot was tested on a 4-wh G-forces and roll,pitch,yaw angles were estimated using adaption of the system of th	neel vehicle using Rasberry Pi. btive algos.
Projects	 Predictive Modelling for Insurance Claim Approvals [R: ggplot2, xgboost, glm, randomForest] Implemented an end-to-end R-based data solution to classify 114000 insurance claims in an unclean imbalanced dataset with 133 variables. Predicted class probability Random Forest, XGboost and achieved improvement over logistic regression baselines. Achieved a logloss score of 0.456 using xgboost. 	
	 Amazon Reviews Recommender System Built a recommender systems to make ratings predictions a database of Amazon reviews. Ratings prediction was performed using linear models and and achieved a 28% MSE improvement over baselines. Imple helpfulness rating to improve MAE by 12%. 	latent factor models using alternating LS
	 Image Segmentation using Probabilistic Techniques Performed object segmentation from given image using differen Bayesian Estimation, Gaussian Mixture models using EM. Improved classification performance, achieved dimensionality 	
	 Handwritten Digit Classification Performed digit recognition using several techniques: bayesiar and feed-forward multi-layered neural net with backprop in P learning rate, network topology, activation functions batch si Achieved a best accuracy of 96.8% on the Neural Net. 	ython. Optimized performance for different
	Deep Learning Performed transfer Learning using Convolutional Neural Net Music Generation using Seq2Seq Recurrent Neural Network 	
Skills	 Languages and Tools: Python, R, SQL, MATLAB, Spark, C, Linux, Git Libraries: Numpy, Scipy, Sklearn, Pandas, Seaborn, Keras, Tensorflow Coursework: Principles of AI, Statistical Learning, Recommender Systems and Data Mining, Neural Networks, Random Processes, Exploratory Data Analysis, Computer Vision Concepts: Linear Models, Bayesian Statistical Learning, Random Forest, Boosting, Clustering, PCA, Neural Nets, Recommender Engines 	
Leadership & Hobbies	Leadership: Co-founded medical device startup: selected as top 10 innovators at IIGP 2015 by SBS and FICCI. Led a team of 3 TAs and 8 tutors as head teaching assistant at UCSD.	

Hobbies: Rock climbing, Hiking, Sketching, History