ARUN JOSEPH

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EDUCATION

University Of California, San Diego   *Sept 2017 - Present*
Graduate Student
Department of Electrical and Computer Engineering

Birla Institute of Technology and Science   *Aug 2011 - July 2015*
B.E.(Hons.) Electrical and Electronics Engineering   Overall GPA: 8.2/10
Department of Electrical and Electronics Engineering

TECHNICAL SKILLS

Computer Languages	Python, R, C/C++, MATLAB
Packages & Tools	TensorFlow, Keras, Pandas, Sklearn

RELEVANT ACADEMIC PROJECTS

Targeted Recommender System for Very Sparse Datasets   Sept 2017 - present
Dept of Computer Science, UCSD

· Created a Recommender System that suggest Stores to users based on Google Local Business Database
· Designed a system that predicts visits using a hybrid collaborative filter optimized to enhance performance in sparse datasets it obtained a accuracy score of 88.41% in Google local businesses Dataset
· Using Latent factor with temporal dynamics designed a rating prediction system that had an RMSE of 0.74549

Low cost ultra-pure sine wave generation with self calibration   Jan 2016 - Nov 2016
Texas Instruments

· Designed a low cost Ultra high purity sine wave generator using self calibration
· Achieved a THD of -140dB at 1/10th the cost of currently available devices
· Published a paper regarding the same in ITC 2016

EXPERIENCE

Texas Instruments   Aug 2015 - Jun 2017
Analog Design Engineer

· Worked as Analog Engineer for the SAR ADC team

Sattva MedTech   Oct 2013 - July 2015
Founding Member

· Co-founded a company in medical devices space (Sattva). Selected among top 10 tech innovations in 2015 by Stanford Business School, Lockheed Martin and FICCI at IIGP 2015
· Developed a low-cost portable solution for fetal monitoring in rural India

RELEVANT COURSES

Statistical Learning, Recommender Systems, Neural Networks, Machine learning Algorithms, Deep Learning specialization, Learning Algorithms