

Arun Abraham Thomas

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I am a staunch believer in an interdisciplinary approach to problem solving. I strongly relate to the “*Medici Effect*” which argues that innovation comes from diverse industries, cultures, and disciplines when they all intersect, bringing ideas from one field into another

EDUCATION

Carnegie Mellon University Master of Science in Electrical and Computer Engineering GPA: 3.6/4 Relevant Coursework- Renewable Energy Systems, Machine Learning, Data Analytics, Cloud Computing	Pittsburgh, US May 2017
Porto Business School Master of Business Administration GPA: 3.8/4 Relevant Coursework- Business Analytics, Advanced Finance, Contract Management	Porto, Portugal May 2017
Maulana Azad National Institute of Technology Bachelor of Technology in Electrical Engineering GPA: 9.14/10	Bhopal, India May 2011

OTHER SKILLS

Web Development (Flask/ Django)
Programming in JAVA, Python, C and R.

PROJECTS

Anomaly Detection Engine for Preventive Maintenance <ul style="list-style-type: none">Developed a machine learning engine for conditioning monitoring of industrial machinery by analyzing a real life dataset of bearing vibration dataProject is hosted at https://blog.arun-thomas.in	June 2019
Solar As A Service (NTPC) <ul style="list-style-type: none">Proposed a Business Model for NTPC, India's largest Energy company to penetrate the Roof Top Solar (RTS) market targeting the Commercial & Industrial (C&I) Consumers who are at present burdened with high C&I Tariff.Developed a complete financial plan with a pricing strategy that protects NTPC's ROE while at the same time offering flexibility in service offerings.	NOCET 2018
Computer Vision using Deep Convnets (Carnegie Mellon University- Course: AI) <ul style="list-style-type: none">Trained an image classifier with an accuracy of 98.1% using keras, tensor flow and GPU instances on AWS EC2. Utilized data augmentation, batch normalization and hyper parameter tuning techniques.	Spring 2017
Short-term Energy Load Forecasting (Carnegie Mellon University- Course: AI & Energy) <ul style="list-style-type: none">Built and compared models like regression and neural networks for forecasting load in Rwanda.Achieved a RMSE of 3.1% on day-ahead forecasts using a neural network based model.	Fall 2016
Predicting iPad sales on eBay (MITx-Online Edx/Kaggle – Data Analytics) <ul style="list-style-type: none">Built regression, CART, random forest prediction models to predict whether an iPad will be sold or not using past eBay sales data in R and ultimately selected the best model with an AUC of 0.8662.	Summer 2015
Business Proposal for MitoDIETS (MBA Project) <ul style="list-style-type: none">Developed a Business Plan for a startup R&D company, MitoDIETS (http://www.mitodiets.eu/) for commercialization of their technology. Conducted an evaluation of business opportunity, industry and competitor analysis, financial and risk analysis.Developed a go to market strategy and a financial plan.Effectively used various management tools like Business Model Canvas, Porter's Analysis, NPV, IRR.	Fall, 2016

HONORS & LEADERSHIP

Dean's List , Porto Business School	Sep 2015 - July 2016
Gold Medal for Scholastic Achievement , Maulana Azad National Institute of Technology	June 2007- May 2011