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Shweta Mehta

GitHub: http://bit.ly/github_code

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Objective: To get a full-time position as a data scientist or machine learning analyst

Education:

Massachusetts Institute of Technology **Graduation: Sept 2016**
- M.S. in Technology & Policy (Institute for Data, Systems, & Society); Concentration: Data Science

Stanford University, 2011
- M.S. in Civil and Environmental Engineering (Atmosphere & Energy)

University of Michigan - Ann Arbor, 2009
- B.S. in Civil and Environmental Engineering; Minor: Mathematics

Relevant Coursework:
- **Data Science:** Machine Learning, Data Science, Optimization Methods, Applied Probability & Statistics
- **Programming:** Programming Methodology, Programming Abstractions, Introduction to Databases (Online), Programming in Python (Online)

Skills:

Proficient: Python (Pandas, Scikit-Learn, Numpy, Scipy), MySQL, MS Access, Excel, ArcGIS
Working Knowledge: Matlab, GAMS, Java, C++, Github, VBA
Introductory: Tableau, MapReduce, Spark, Julia

Experience:

Ramboll ENVIRON, San Francisco, CA **July 2011 – July 2014**
Air Quality Associate
- Experience managing projects - technical lead, client interaction, budget & proposal development
- Performed air dispersion modeling, conducted regulatory analysis, evaluated emissions inventories & health impacts from construction/ operational sources on sensitive populations
- Projects included litigation support, public policy, permitting and development projects
- **Initiated Relational Database for Environmental Application**
- Provided technical leadership & developed automation scripts (Python) for large-scale modeling
- Built a relational database in MySQL to process 12 GB of data (300 million records) to evaluate health risks for the entire City of San Francisco & assist in future development and planning
- Resulted in significant cost and time savings (~75%) for the team

California Independent System Operator, Folsom, CA **June 2010 – Aug 2010**
Engineering Intern- Smart Grid team
- Worked on policy to plan and transition CA to a smart grid & error analysis for wind forecasting

Course Projects:

Machine Learning Models to Predict Efficiency of Organic Solar Cells **Mar 2016**
- Feature engineering and ran several machine learning models to predict efficiency of solar cells
- Ran Regression models with regularization, and ensemble methods such as Random Forests

Machine Learning Models to Predict Online Course Dropouts **Nov 2015**
- Implemented discriminative classifiers such as Logistic Regression and Support Vector Machines to predict course dropouts using edX data

Research Experience:

MIT Energy Initiative Research Associate, Cambridge, MA **Sept 2015 – Sept 2016**
- Optimization modeling of Iceland's electric power sector to strategize a cost-effective plan to enhance its long term energy security and transmission planning
- Used regression to determine energy production function and clustering for load block levels

Stanford Research Associate, Stanford, CA **Sept 2010 – June 2011**
- NREL, UC-Colorado, and Stanford collaboration project to create, assess, and quantify water quality and usage data and metrics for large scale solar plants in California

Awards:
- British Petroleum - MIT Energy Fellow, 2014-2015
- Dean's List, University Honors, 2007-2009
- Sarah Marian Parker Scholar: Awarded for outstanding academics & research, 2009

Certification:
- Engineer-In-Training, US (Certified by the Michigan Board of Professional Engineers), 2009

Leadership:

MIT Clean Energy Prize, Speaker Recruitment Chair **Oct 2014 – June 2015**
Stanford Solar Wind & Energy Project, Secretary **Sept 2009 – Dec 2010**
Society of Women Engineers, Outreach, Treasury, Membership Chair **Jan 2007 – Apr 2009**