SEPEHR SADIGHPOUR

DATA SCIENTIST

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SUMMARY

Data scientist with background in computational physics and interest in supervised and unsupervised machine learning. I am currently pursuing a data science role in the tech industry.

EDUCATION

Duke University
B.S. Physics 2008
Independent Study in Machine Learning applications in physics. Trained neural networks in an unsupervised manner to model wavefunction of quantum systems.

EMPLOYMENT

BayThrive, *Owner*, San Francisco, CA Aug 2010 - Sep 2015, Aug 2010 - Sep 2015
As a freelancer, I enjoyed taking on a variety of roles, performing data analysis whenever possible.
- Enhanced market forecasting algorithm for financial research company by generating random walk data of varying degrees of self-similarity, and analyzing the convex hull of the time series data in MATLAB.
- Helped big data text analysis startup build out a containerized, reproducible development and production environment.
- Increased traffic 20x and conversion rates 4x for global biotech sales and services company by removing friction, streamlining UI, and implementing SEO best practices.

Mepkin Abbey, *Technical Advisor*, Monck's Corner, SC Jun 2009 - Jun 2010
Helped a small monastery start a business in growing culinary mushrooms. Taught myself to build websites and do online marketing. Managed servers and oversaw technical projects.

Duke University Nonlinear Dynamics Lab, *Research Assistant*, Durham, NC Jun 2007 - May 2008
Tested statistical models in MATLAB to test hypotheses about nonlinear physical systems.

SKILLS

Programming and Analysis, Python {NumPy/Pandas, scikit-learn, NetworkX, NLTK, gensim, BeautifulSoup}, Databases, PostGRES, Mongo

PROJECTS

SciExplorer

Web app that classifies and calculates similarity between documents using distributed representation of words and sentences (Word2Vec/Paragraph2Vec). Used community detection algorithm to transform a weighted undirected graph of document relationships to identify sub-topics.