Artem I. Yankov

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TECHNICAL SKILLS

Languages: Python, R, Fortran, bash, MS SQL, LaTeX
Operating Systems: OS X, Unix, Windows
Applications & Libraries: Tableau, AWS, Spark, SciKit-Learn, Pandas, git
Other Skills: Machine learning, data mining, uncertainty quantification, numerical linear algebra

EXPERIENCE

Data Scientist   August 2014 - Present
Zillow, Seattle, WA

- Used network graph algorithms and AWS framework to build a zip code recommendation engine for advertisers.
- Implemented models to predict customer churn. Developed weekly churn visualizations in Tableau utilized by company CEO to guide pricing decisions.
- Used linear programming algorithms to match consumers with mortgage lenders given various geospatial restrictions.
- Devised metrics and constructed statistical models to analyze the performance of business-to-business marketing efforts.

Data Scientist Intern   May 2014 - August 2014
Globys, Seattle, WA

- Developed a simulator for the usage behavior of mobile phone subscribers in a contextual marketing framework using machine learning and statistical data analysis.
- Researched and developed algorithms for predicting customer churn, including Bayesian Bandits and Hidden Markov Models.

Graduate Student Research Assistant   July 2010 - December 2014
University of Michigan, Department of Nuclear Engineering, Ann Arbor, MI

- Applied statistical and machine learning techniques to analyze the phenomenon of fission gas release in nuclear fuel performance.
  - Involved folding together experimental data and computer simulation results to improve predictive capabilities of computer codes.
- Research in how uncertainties in reactor simulation code input parameters propagate to output predictions.
  - Extensive collaboration with researchers from Oak Ridge National Laboratory to develop algorithms for quantifying uncertainties in nuclear reactor simulators when faced with large numbers of correlated, stochastic inputs.
  - Results of research published in leading journal and awarded first prize at a major technical conference.
- Implemented numerical linear algebra routines into primary software used by Nuclear Regulatory Commission to simulate nuclear reactor accident scenarios.

EDUCATION

University of Michigan   Ann Arbor, MI
Ph.D Nuclear Engineering and Radiological Sciences   December 2014

Rose-Hulman Institute of Technology   Terre Haute, IN
B.S. Mathematics   May 2010
B.S. Physics
Minor: Computational Science
Clarence P. Sousley Award for demonstration of exceptional performance in the mathematical sciences.