Artem I. Yankov

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URL: https://sites.google.com/a/umich.edu/yankovai/

GitHub: https://github.com/yankovai

(401) 206-9133

TECHNICAL SKILLS

Operating Systems: OS X, Unix, Windows

Applications and Libraries: Numpy, SciPy, Pandas, BeautifulSoup, ggplot2, Git,

SciKit-Learn, Twitter Streaming API, Tableau, Dakota, Maple

Other Skills: Web scraping, linear/logistic regression, support vector machines, uncertainty quantification, numerical linear algebra, reduced order modeling

EXPERIENCE

Data Scientist

July 2010-present

Ann Arbor, MI

- StackOverflow Query Tag Extraction
 - Used Python to analyze over 6,000,000 StackOverflow queries and corresponding tags using MapReduce-type framework.
 - Reformulated raw textual data to a useful form and placed into SQL database for further processing.
 - Developed an algorithm to automatically predict new tags based on similarity to queries in training data set.
- College Basketball Prediction
 - Scraped a decade's worth of college basketball data from sports-reference.com/cbb using BeautifulSoup and stored results in SQLite database.
 - Analyzed data and developed a logistic regression model to predict the outcome of unplayed games.
 - Ranked all college basketball teams based on simulations of predictive model.
 - Created a visualization of predictive model performance using Tableau.
- Twitter User Cravings
 - Used Twitter Streaming API to investigate cravings of Twitter users.
 - Utilized Apache Pig to filter and process relevant data.
 - Created a visualization application using Tableau to present results.

Graduate Student Research Assistant

July 2010-present

University of Michigan, Department of Nuclear Engineering, Ann Arbor, MI

- Worked with Idaho National Laboratory and Sandia National Laboratory to fold high fidelity computer simulations and experimental data towards the creation of optimized nuclear fuel performance models.
- Research in how uncertainties in reactor simulation code input parameters propagate to output predictions.
 - Extensive collaboration with researchers from Oak Ridge National Laboratory.
 - 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

Ph.D Nuclear Engineering and Radiological Sciences

Ann Arbor, MI Expected 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.