MICHAEL MOLITERNO

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EXPERIENCE

Data Scientist | Metis | New York, NY Jan 2015 – Present

- Developing a market analysis portal for a bag designer planning to launch sales of travel bags on Etsy.com; acquiring data via web-scraping/Etsy API, modeling and visualizing current price and supply distributions, tracking seasonal and yearly sales trends, and gleaning insights from user feedback using text analysis
- Web-scraped data on 15,000 box office movies to develop linear models that predict a movie's box office success; processed and cleaned the data using pandas, then identified actors, directors, and writers that statistically significantly boost (or depress) a movie's global total gross
- Analyzed 10,000 electronic health records to develop classifiers that predicts onset of Type 2 Diabetes, then developed a tool in d3.js that allows users to visualize their Diabetes risk profile given their age, gender, and BMI

Senior Consultant | Deloitte Consulting LLP | Washington D.C. Jul 2010 – Sept 2014

End-to-End Infrastructure Monitoring (IRS) July 2013 – Sept 2014

- Led a team of analysts that designed and deployed application, database, and network monitoring solutions that measure the performance, availability, and stability of IRS networks and IT systems
- Communicated data-driven insights and actionable recommendations for infrastructure improvement and modernization to several IRS decision-makers and committees
- Iteratively integrated end-user feedback to develop usable and understandable monitoring dashboards

CRM Modernization for Traveler Redress Inquiry Program (TSA) Oct 2011 – June 2013

- Created and deployed a custom case-management system (using MS Dynamics CRM) that TSA uses to ensure routine border crossings for long-term residents and legitimate travelers
- While leading the client-facing business requirements, functional validation, and user training team, also supported the build out of Microsoft Dynamics CRM infrastructure, and heavily contributed to design, development, and deployment of the customized CRM application
- Developed and implemented a database synchronization process that reconciled ten million rows of data, reducing data anomalies and providing updated and accurate data for future application interfaces, analysis, and reporting

Rapid Application Development Team (TSA) Jul 2010 – Oct 2011

- Supported development and design of four SQL/.NET applications using Agile development techniques
- Delivered a range of SDLC capabilities: business requirements, process modeling, system design, application development, functional testing, end-user training, and production deployment
- Maintained servers, applications, and databases for the team's development, test, and pre-production environments

University of Virginia Analyst Recruiting (Team Lead) Aug 2010 – May 2014

- Managed and directed team of 35 consultants to engage with professors and student groups, showcase our experience and skills using presentations and workshops, and recruit talent to Deloitte from UVA

EDUCATION

University of Virginia, BS Systems Engineering & BA Economics (High Distinction) May 2010

- Thesis: Created a risk-based assessment tool for the FAA to select airports for runway safety inspections
- Relevant Coursework: Linear Statistical Models, Econometrics, Statistics, Probability, Discrete Math, Discrete Event Simulation, Computer Science, Finance, Game Theory and Competitive Strategy

SKILLS AND INTERESTS

- Data Science: Statistical modeling, predictive analytics, machine learning (supervised and unsupervised), feature selection, data acquisition (web scraping/APIs), natural language processing (NLP), data visualization (d3.js, matplotlib, plot.ly)
- Languages, Packages and Databases: Python (especially scikit learn/pandas), SQL, MongoDB, some Hadoop/Hive
- Web Design: d3.js, HTML, CSS
- Personal Interests: Sabermetrics (advanced baseball statistics), investing, cooking, and traveling