Doug Raffle

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EDUCATION

WEST VIRGINIA UNIVERSITY
MS in Statistics
Aug. 2015 | Morgantown, WV

CALIFORNIA UNIVERSITY OF PENNSYLVANIA
BS in Computer Science
Minor in Mathematics
May 2013 | California, PA

LINKS

Portfolio://
dougraffle.com/portfolio.html
Github://
github.com/raffled/
LinkedIn://
linkedin.com/in/raffled

SKILLS

MAJOR SKILL SETS
Data Technologies
Statistical Modeling
Multivariate Statistics
Data Mining/Machine Learning
DSaaS
Software Engineering
Data Visualization
Agile Development
Teaching & Public Speaking

TECH STACKS
RStudio & RStudio Connect
Shiny & flexdashboard
RMarkdown
H_2O.ai
Spark/Hadoop
Linux/Unix
Tableau

LANGUAGES
Strong
R
SQL

Familiar
Python
Java

EXPERIENCE

THE HARTFORD   Hartford, CT
Dir. Data Science | AcTech Pricing & Consulting   Sept. '21 - Present

- Own the suite of Commercial Lines Risk Score & Pricing models and the monitoring, modeling, and deployment infrastructure needed to maintain them. These models allocate over $3bn in in-force premium across Auto, Property, General Liability, and Workers Compensation for both Middle & Large and Small Commercial policies.
- Mentor and manage the lead data scientist and lead data engineer of the AcTech Consulting team as they take on ownership of their respective consulting teams and portfolios.
- Manage data scientists, engineers, and actuaries assigned to Pricing work streams.
- Collaborate with other AcTech team leaders to set department priorities, roadmaps, and strategies.
- Work closely with partners in Data Science, Actuarial, and Product to identify enhancements to our Pricing Models.
- Meet regularly with senior leadership in Actuarial and Product to prioritize pricing work and maintain long-term roadmaps.
- Stay connected with peers and leaders from The Hartford's other Data Science & Analytics organizations to maintain strategic alignment on technologies, methodologies, recruiting, and talent development practices.
- Chair, host and/or present at a variety of analytical community events (HIG Data & Analytics Day, Analytics COPs, Data Science Quarterly Meetings, etc).
- Continue to support AcTech Training by guiding curriculum and capstone project support.

Dir. Data Science | AcTech Consulting   Mar. '21 - Sept. '21

- Expanded the AcTech Consulting team from just myself and one associate data scientist to a diverse team of five data scientists and data engineers in a year.
- Broadened the scope of the Consulting portfolio from modeling focused projects to also include data engineering efforts (e.g., building new data pipelines, process re-engineering, building interactive analytical/reporting apps).
- Conducted several peer reviews of high-impact Actuarial & Data Science work efforts to ensure they met the standards of HIG Data Science Standard Work.
- Consulted with Actuarial leadership on the adoption of emerging technologies/platforms and incorporating statistical modeling, machine learning, and modern data technologies into their business processes.

Sr. Data Scientist | AcTech   Oct. '18 - Mar. '21

- Founded the AcTech Consulting team, which works across the Actuarial organization and helps to accelerate modeling and automation focused projects across all lines of business.
- Fit a variety of statistical models and machine learning algorithms to modernize or enhance existing Actuarial processes (e.g., stochastic reserve modeling, modeled indications, claim-level loss development) and worked with Actuarial partners to integrate these insights into their workflows.
- Designed curriculum for and conducted classroom-based training in an intensive 8-week program for actuaries. This evolving course teaches modern data science techniques and data technologies and includes a hands-on capstone project.

EXPERIENCE (CONT'D)

THE HARTFORD   Hartford, CT
DATA SCIENTIST | SMALL COMMERCIAL DATA SCIENCE   Feb. '17 - Oct. '18

- Designed and implemented a Chairman's Award-winning model scoring engine to serve live predictions from a suite of machine learning algorithms (via a RESTful web service). Model predictions were used to prefill customer attributes and streamline the quoting process.
- Fit machine learning algorithms to predict customer characteristics using large Third Party Data sources.
- Worked with partners from Underwriting and Actuarial to create predictive models and business rules to triage new and renewal policies for in-depth underwriter review.
- Enhanced and maintained an interactive analytical tool which ingests and aggregates quoted policy information for underwriters and provides risk metrics for a variety of policy attributes.
- Used a variety of statistical models and machine learning techniques to provide underwriting insights for new and renewal business.

MYLAN LABS (VIATRIS)   Morgantown, WV
SPECIALIST | COMMERCIAL ANALYTICS   Sept. '15 - Jan. '17

- Acted as an internal consultant, using statistical models and machine learning algorithms to analyze Mylan's products, customers, and competitors using R and other statistical packages.
- Designed presentations summarizing Mylan's major product markets, including product and competitor performance, for senior leadership.
- Modernized reporting and presentation workflows using Tableau and Shiny to create streamlined, interactive dashboards.

CALIFORNIA UNIVERSITY OF PENNSYLVANIA   California, PA
LECTURER | BUSINESS STATISTICS   Jan. '16 - Dec. '16

- Used real world experience as a data scientist to introduce students from the business college to the concepts they'll need to work in a modern, data-driven business environment.

WEST VIRGINIA UNIVERSITY   Morgantown, WV
GRADUATE TEACHING ASSISTANT   Aug. '13 - Aug. '15

- Taught and designed coursework for laboratory and lecture sections of undergraduate Statistics courses.
- Worked with the director of the Master's of Data Science program to design online coursework.

VOLUNTEER EXPERIENCE

CORRELATION ONE   Hartford, CT
MENTOR | DATA SCIENCE FOR ALL (DS4A)   Nov. '21 - Present

- Provide capstone project support and career guidance to a team of DS4A Fellows

HIG MATH & READING BUDDIES   Hartford, CT
MATH BUDDY   Sept. '18 - May '19

- Worked with 4th grade math students in a downtown Hartford school to help teach them mathematics skills and introduce them to math-focused careers.