DONALD K. WEDDING, PHD

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SUMMARY

- Twenty years of experience in Data Science, Machine Learning, and Forecasting applied to marketing, financial services, and retail industries.
- Ten years of experience as college instructor teaching and developing classes for Data Science and Marketing programs at both the graduate and undergraduate levels.
- Pragmatic approach to analytics focusing on usability and understanding of models.
- Experienced in managing and developing comprehensive strategy to incorporate analytics within organization. Experience includes recruiting talent, selecting software, and educating organization on use of analytics.
- Education
 - o PhD Engineering Machine Learning and Artificial Intelligence
 - o MS Engineering Software Development and Statistics
 - o MS Management Marketing and Finance
 - o MS Data Mining
 - o BS Electrical Engineering

MODELING APPLICATIONS	ANALYTIC TOOLS	Analytic Techniques
 Customer Analytics (CRM) Retention / Churn Lifetime Value Customer Segmentation Customer Response 	 Python Python Programming Scikit Tensor Flow NLTK 	Statistical Analysis Generalized Linear Models Multivariate Regression Logistic Regression
Insurance • Rating / Underwriting • Territory Analysis • Usage Based Analysis Banking	 Jupyter Notebooks SAS SAS Programming SAS Macro Language SAS Enterprise Miner SAS Forecast Server 	 Machine Learning Decision Trees (Chaid, CART, C5.0) Gradient Boosting Random Forests Deep Learning Neural Networks Support Vector Machines (SVM) Clustering / Segmentation
 Credit Risk Scoring Default / Loss / Prepay Health Care Claims Payment Models Statistical Analysis 	Additional Tools R Programming Data Robot Tableau SQL	 Artificial Intelligence Other Analytics Time Series Analysis Natural Language Processing Variable Selection / Reduction Fractal / Chaos Analysis

EXPERIENCE

2014-Present

DATA SCIENCE CONSULTING DKW ANALYTICS Cleveland, Ohio

Independent Data Science consultant available for projects, consulting, and subcontracting. Available for both 1099 and W2. Practice utilizes both Python and SAS coding for use cases related to:

- Credit and Insurance Risk
- Customer Retention / Lifetime Value Analysis
- Statistical Analysis of Medical Data
- Time Series Forecasting
- Natural Language Processing
- Clustering / Segmentation
- Ad Hoc Analysis
- Vetting Data Science Candidates
- Mentoring and Training Junior Level Data Scientists

2013-Present

INSTRUCTOR OF DATA SCIENCE Master of Science of Data Science (MSDS) Program Northwestern University; Chicago, Illinois

- Taught for numerous Data Science courses at Graduate/Undergrad Level
- Developed Data Science courses in statistics and machine learning
- Content advisor for various universities initiating Data Science programs
- Part Time Instructor American Public University (APUS)
- Part Time Instructor University of Akron

2016-2018

DIRECTOR OF DATA SCIENCE Sprint Corporation; Overland Park, Kansas

- Developed Corporate Analytic Center of Excellence
- Recruited, hired, trained, and managed team of Data Scientists
- Presented results to corporate "C-Level" officers
- Personally Developed or Managed the Development of Models for:
 - Customer Segmentation
 - o Customer Churn and Lifetime Value Models
 - O Customer Upsell / Cross Sell Models
 - Customer Behavioral Triggers
 - o Retail Store Placement
 - o Artificial Intelligence / Text Analytics for Customer Chats

2007-2016

DATA SCIENCE ENGINEER SAS Institute; Cary, North Carolina

Developed predictive models for Banks, Insurance Companies, Retail, and Telecom. Models developed included:

- Credit Risk Models
- Insurance Risk Models
- Customer Segmentation
- Customer Churn and Lifetime Value Models
- Customer Behavioral Triggers
- Text Analytics on email data, customer chats, call center notes
- Retail Store Placement
- Fraud Models

2010-2011

MANAGEMENT SCIENTIST OF ANALYTICS Accenture Consulting; Chicago, Illinois

- Managed Team of Data Scientists
- Development of Predictive Models for Banking and Insurance Clients:
 - Customer Acquisition and Segmentation models
- Time Series Analysis for Loan Defaults

2005-2007

PRODUCT MANAGER, ANALYTICS RESEARCH AND DEVELOPMENT Progressive Insurance; Mayfield, Ohio

- Managed Team of Data Scientists
- Personally Developed or Managed the Development of Models for:
 - Insurance Risk
 - Customer Churn and Lifetime Value Models
 - o Territory Risk Models
 - o Text Analytics of Customer Email
 - Telematics Data Analytics

1999-2005

VICE PRESIDENT OF ANALYTICS SENIOR MODELER / MANAGER Key Bank Corporation; Cleveland, Ohio

- Recruited, hired, trained, and managed team of Data Scientists
- Presented results to corporate "C-Level" officers
- Personally Developed or Managed the Development of Models for:
 - o Credit Risk
 - o Customer Segmentation
 - o Customer Churn and Lifetime Value Models
 - Customer Behavioral Triggers
 - o Financial Manager Attrition

1998-1999 ARTIFICIAL INTELLIGENCE SPECIALIST

Pegasus Technologies; Mentor, Ohio

- Electric Power Plant Simulation Models
- Customer Training Classes on Statistics and Neural Networks

1988-1998 SOFTWARE ENGINEERING

Worked on numerous object oriented software engineering projects as both lead software engineer and team member. Languages include: Java, C++/C, and Ada.

- Noteworthy Medical Systems; Cleveland, Ohio
- Photonics Systems; Toledo, Ohio
- Loral Defense Systems; Akron, Ohio
- Naval Aviation Depot; San Diego, California

EDUCATION

ENGINEERING PH.D. ENGINEERING SCIENCE University of Toledo

M.S. Engineering Science; University of Toledo B.S. Electrical Engineering; University of Toledo

- Data Science / Machine Learning / Artificial Intelligence
- Statistical Analysis
- Computer Engineering

DATA MINING M.S. DATA MINING

EDUCATION Central Connecticut State University

BUSINESS M.S. MANAGEMENT EDUCATION University of Akron

SANKEY CHART

Sankey Chart mapping experience to skills

