Travis Spear

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Summary

As a data scientist and analyst, I focus on enhancing company procedures using cutting edge technology in analytics, machine learning, and artificial intelligence. With a strong background in quantitative and language analytics I have the skills needed to help your company thrive with data driven decisions. Proven ability to solve problems creatively and efficiently in the realms of data mining, visualization, and modeling.

Career Interests

- Natural Language Processing
- Data Stream/IOT Analytics
- Medical/Healthcare Applications
- Business Analytics

Core Skills

Primary Languages : R, Python, SQL
Other Languages : JavaScript, C#
Frameworks : Shiny, ggplot, Flask, Tensorflow, Keras
Competencies : Data Mining and Cleaning, Data Visualization, Dashboard Development, Business Analytics, Forecasting, Natural Language Processing, Statistics, Experimental Design, Machine Learning. Artificial Intelligence

Education

2014-2015 : M.S. Biomedical Science - Colorado State University

- Advanced coursework in human physiology with a concentration in Neuroscience

2010-2014 : B.S Biomedical Science - Colorado State University

- Foundational knowledge across the medical sciences
- Quantitative coursework in Biostatistics and Calculus

Career Summary

2017 - Present : Medical Research Scientist III
MedAware Systems Inc.

Key Responsibilities

- Managed the integrity and completeness of data acquisition from thousands of clinical trials
- Coded data validation tools and algorithms to comprehensively assess millions of data points
- Managed targeted efforts to address data quality issues under strict deadlines
- Integrated third party data sources into current marketing practices to drive targeted campaigns
- Developed novel algorithms to automatically extract information from unstructured, non-standardized, text formats
- Pursued novel research topics for publication to be presented at medical conferences
- Produced data visualizations for both clients and internal use
- Identified the need for, and assisted in the design of, UI/UX improvements
- Performed quality assurance of C#/.NET Framework web applications

2016 - 2017 : Medical Research Scientist I
MedAware Systems Inc.

Key Responsibilities

- Facilitated large scale meta-analysis via data acquisition
- Participated in meta-analyses containing up to 1100 clinical trials

- Improved existing data platforms using domain knowledge to enhance the value of analyzable data
- Performed quality assurance of C#/.NET Framework web applications

2014 : Microbiology Teaching Assistant
Colorado State University

Key Repsonsibilities

- Organized and lectured for groups exceeding 100 students
- Assisted in writing interdisciplinary exam questions

2012 : Undergraduate Research Assistant
Colorado State University

Key Responsibilities

- Investigated Histone binding kinetics utilizing Fluorescence Resonance Energy Transfer (FRET) Assays of purified proteins