**DANIEL S. FLECK**

309 Rill Road Wilmington, NC 28403

(910) 617-2724 | [fl](mailto:dsf3564@uncw.edu)eckd1@gmail.com

[www.linkedin.com/in/dsfleck](http://www.linkedin.com/in/dsfleck)

**EDUCATION**

University of North Carolina Wilmington – Wilmington, NC Expected December 2019

*Master of Science in Data Science* GPA : 4.0

University of North Carolina at Chapel Hill – Chapel Hill, NC May 2015

*Bachelor of Arts in Public Policy with a Minor in Mathematical Decisions Science*

**TECHNICAL SKILLS**

* Certifications: SAS Certified Base Programmer for SAS 9
* Programming Languages: Python, SAS, R, SQL
* Software and Frameworks: Microsoft Access, Microsoft Excel, SQL Server, Jupyter Notebook, Tableau, Power BI, Oracle BI Answers, MicroStrategy, Salesforce, ArcGIS

**GRADUATE PROJECTS**

**Castlebranch – Practicum**  **May 2019 – Present**

* Build an ETL process using SQL to create a real-time database that stores department and user-specific historical and daily captured data
* Develop daily automated Tableau reports from the database completing analysis to provide management with KPIs that help determine trends, project volumes for future months/years, and identify areas of improvement

**Graduate Assistant** **August 2018 – Present**

* Competed in the Kaggle NCAA March Madness Machine Learning (ML) Competition developing a predictive algorithm to predict the winner of every game using feature selection with ML models xgboost, logistic, and MLP

**Natural Scenery Image Classification** **January 2019 – May 2019**

* Tested multiple image classification techniques in scikit-learn including Logistic, Decision Trees, Random Forest, MLP, Support Vector Machine, and ensemble modeling to classify 15,000 natural scenery images into 6 categories
* Improved upon supervised learning classification accuracy through deep learning with convolutional neural networks (CNNs) using Tensorflow and image segmentation in Python and presented and documented results

**Postsecondary Education Value Rankings** **January 2019 – May 2019**

* Predicted the median salary by institution 10 years after graduation evaluating general linear models with backwards selection in SAS, and used the predicted salary to create an institutional value metric
* Completed exploratory data analysis on all datasets for feature engineering to help increase the fit of the model
* Created a drill-down visual report in SAS that provides an interactive map for viewing the predicted salary and institutional rank by state.
* Presented on the findings and documented all analysis and results in a detailed executive report and executive summary

**Global Shark Attack Activity** **August 2018 – December 2018**

* Analyzed Global Shark attack data cleaning raw data using numpy, pandas, and regular expressions and utilized data mining techniques in Python to determine association of factors to the likelihood of shark attacks in an area
* Mapped Shark attacks using geopandas and ArcGis to discover location, activity, and climate trends

**EXPERIENCE**

**Fidelity Investments –** Durham, NC **June 2019 – August 2019**

*IT Audit Intern – Enterprise Technology*

* Scrum team member on Fidelity’s Enterprise Technology Risk Management team for the audit of their internal OpenStack Cloud Computing software using Agile auditing methodology
* Develop an understanding of IaaS management, security, and governance while engaging in all audit planning, client meetings, and audit presentation meetings, while also documenting all audit testing in work papers
* Complete data analysis for audit testing of user access, and vulnerability management using Python and Power BI
* Execute ad hoc requests including REST API querying the telemetry backend with Elasticsearch, and outlier detection of employees within the same active directory group using unsupervised learning in cluster analysis

**Alliance Behavioral Healthcare –** Raleigh, NC **March 2018 – August 2018**

*Power Analyst*

* Reviewed SQL reporting with IT to ensure accuracy of new monthly IBNR reporting, reconciling any IBNR claims differences between our accounting and managed care systems
* Liaised between Business Operations and IT on any business intelligence data, reporting or development needs
* Collaborated with cross-departmental units to identify information needs and design solutions using business intelligence (BI) concepts to create parameter driven reporting

**Alliance Behavioral Healthcare –** Raleigh, NC **May 2016 – March 2018**

*Financial Analyst*

* Created monthly reports on the status of Alliance’s Medicaid per member cost and presented findings to leadership
* Utilized Microsoft Access to develop and define the monthly Medicaid reconciliation process
* Communicated with Providers to develop Medicaid rates and implemented new programs and services
* Analyzed individual enhanced rate requests submitted by providers to determine accuracy of their financial data

**JOSCO –** Raleigh, NC **August 2015 – May 2016**

*Category Analyst – Advance Auto Parts Account*

* Designed and developed weekly Tableau reporting for manufacturers to analyze the performance of their products within each category
* Forecasted POS and presented findings to Advance’s team during category reviews in order to make educated product, category and promotional decisions
* Performed ad hoc reporting and exploratory data analysis utilizing Advance Auto Parts Oracle BI Database for manufacturers and Advance Auto management