Daniel Griffin

85 Rio Robles East, #2405, San Jose, CA: (513) 646-2454: dcompgriff@gmail.com: https://dcompgriff.github.io/

Education

Senior Data Scientist and Machine Learning Engineer — **7+ Years**
Companies, Universities, Government Research Institutions — Over 50 Data Science Projects

Masters in Computer Science – Machine Learning Focus — **GPA: 3.85/4.0**
UNIVERSITY OF WISCONSIN-Madison, WI — Class of 2018

Bachelors of Science in Computer Engineering — **GPA: 4.0/4.0**
UNIVERSITY OF CINCINNATI-Cincinnati, OH — Class of 2016

Relevant Skills:

Machine Learning

- Advanced Supervised and Unsupervised Learning
- Advanced Statistical Modeling
- Scikit-Learn, pymc3, etc…
- Semi-Supervised and Transfer Learning
- Bayesian Statistics
- Spark, SparkSQL, Spark MLLib
- Reinforcement Learning
- Advanced NLP/NLG
- Modern Deep Neural Networks
- Tensorflow, Keras, Pytorch

Software Development

- Python (7 years)
- Java & Java Web Apps (9 years)
- AWS Cloud Services
- GCP Cloud and AI Services
- Scrum, XP
- SQL & NoSQL Databases

Management & Communication

- WPAFB AI Project Management
- Cisco CX Staff Data Scientist
- Intelligent Actions Engine Lead
- Teaching AI at UW
- Social Media AI Project Lead
- AI/ML Blog Creation

Professional Experience

Cisco Staff Data Scientist (May. 2018 – Present; ~1.5 years)

I worked with and lead the technical projects for a group of data scientists developing a wide range of machine learning models and systems to directly optimize customer experiences at Cisco. I leveraged enormous quantities of data and the latest AI/ML techniques to build powerful insights for predictions about customer journeys, predictions and automated response to customers through social media, and an intelligent action methodology and system design to automatically improve Cisco' customer experience. My methods spanned deep technical statistical analysis (causal inference, statistical decision systems and reinforcement learning, bayesian statistics, etc...), deep learning systems (deep NLG/NLP, deep reinforcement learning, deep learning statistical models etc...), processing huge amounts of data using Spark and Hadoop, implementing the data science infrastructure on google cloud with Dataproc/Datalab/ML Engine with GPUs/TPUs for my team to use, planning and vetting technical designs for all data science projects in our group, and writing technical papers and conference presentations. In my time at Cisco, I went from data scientist, to senior, to staff data scientist.

Graduate Researcher, Teacher, & TA: University of Wisconsin (Aug. 2016 – May 2018; ~2 years)

I was a Teacher for Artificial Intelligence Course, teaching concepts of classification, clustering, intelligent search, and optimization. Researcher with Dr. David Page's group on multi-task and transfer Machine Learning for Time Series data sets.

Data Scientist: UC & Wright Patterson AFB (May 2012-Aug 2016; ~4 years)

I was a Researcher, Developer, and Project Manager in the Human Performance Wing, developing Machine Learning models for automated health analysis, performance readiness prediction, injury risk, and assay quantification. I also invented a flexible, disposable, passive sweat sensing embedded band-aid system, and full-stack supporting software system for pro athlete health monitoring.

Machine Learning Projects (https://dcompgriff.github.io/portfolio/)

Cisco CX Customer AI Project (ML)

I worked with, and partially lead, a group of data scientists developing a wide range of machine learning models and systems to directly optimize customer experiences at Cisco. I leveraged enormous quantities of data and the latest AI/ML techniques to build powerful insights, lead projects, and develop technical ML pipelines for predictions about customer journey experiences, prescriptive actions for improving customer experience, automated AI responses to customers through social media, managing customer AI project proposals from business stakeholders.

Cisco CX Prescriptive Actions AI Project

I developed the methodology, system design, technical implementation, business resources, and business context for using AI to generate prescriptive actions to impact a range of goals. For example, I developed the methodology, prescriptive action algorithms, and prescriptive actions themselves for Cisco DNA Center for prescribing engagements to improve the customer's experiences.

Cisco Social Media AI Project (ML)

With nothing more than a set of social media data Cisco had gathered, I developed a multi-stage plan, and implemented automated AI responses using deep learning based natural language generation and processing (NLG/NLP) systems, organized groups of data scientists from across Cisco to collaborate, formed contacts on Cisco's social media monitoring team, and lead the technical progress and implementations for the automated response systems.