Chris Coughlin

Analytical-minded Data Scientist with over 15 years of experience demonstrating a strong ability to deliver complex insights via statistical analysis and machine learning methods. Adept at analyzing and interpreting large datasets, and at developing data science applications to deliver value. Known for strong attention to detail with a significant ability to excel in both a team and solo environment.

Recent Professional Experience

Datasite | Minneapolis, MN
Data Scientist | November 2021 - Present
- Research and develop solutions in support of Datasite's suite of products targeting the mergers and acquisitions (M&A) sector
- Created an "investment recommender" deep learning model to recommend investments based on a client's deal history and free-form search criteria
- Apply Natural Language Processing (NLP) techniques and technologies in the analysis of contracts and other documents
- Mentor and tutor new team members in Python, machine learning, data science, and statistics. Cultivate enthusiasm for and a deeper understanding of machine learning

U.S. Bank Wealth Management and Investment Services | Richfield, MN
Data Scientist - Officer | April 2019 – November 2021
- Collaborate with Global Fund Services to provide statistical analysis to answer weekly questions from executive team, such as the feasibility of forecasting dividends and demonstrating an approach to flag unusual transactions in real time
- Planned and assigned schedules and projects for an offshore data science team
- Implemented a document digitization strategy for extracting information from invoices
- Created an AIOps incident prediction model that reads metrics from Application Performance Management (APM) systems to predict whether the application is at risk of incident, providing detailed information about the risk factors
- Developed a customer attrition model based on survival analysis and random forest, interviewing relationship managers for clients determined to be at risk by the models to learn more about them

C.H. Robinson | Eden Prairie, MN
Data Science Engineer | April 2017 - April 2019
- Coordinated with Finance team and others to apply data science techniques into their workflow which were estimated to have been able to save over 200 hours of overtime per year
- Developed a deep learning model to determine whether a document had been signed. In production it scanned more than 35,000 images per day with over 96% accuracy
- Developed an approach to handling "orphaned" documents, reading the contents of the document to place it with the correct shipment to reduce invoice processing time

Emphysic LLC | Hopkins, MN
Founder | August 2015 - April 2018
- Bootstrapped with NASA funding
- Developed a distributed algorithm for finding damage in aerospace structures, based on computer vision, machine learning, and pipeline parallelism

Contata Solutions | Minneapolis, MN
Data Science Engineer | April 2015 - February 2016
- Communicated between 15 software engineers and 5 machine learning engineers to ensure all tasks were on schedule and everyone was kept informed of project status updates
- Designed an anomaly detection system based on clustering techniques that detected unusual activity in customer reward card programs
- Built a classification model that could generate weekly sales leads for insurance agencies

Additional Experience

Computational Physics Programmer | Applied Physicist

Core Competencies

Data & Quantitative Analysis, Data Mining, Statistical Analysis, KPI Dashboards, Algorithms, Leadership, Mentorship, Machine Learning, Agile, Git, Python, REST, APIs, AI, Predictive Analysis, Anomaly Detection, Software Development

Education/Certifications

Master of Science in Physics, Queen's University Kingston
Honours Bachelor of Science in Physics, Lakehead University

Patents

Distributed Mode System for Real-Time Acoustic Emission Monitoring (#US7080555B2)