Anthony N. Chi

Data Science Professional

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Entrepreneurial, goal-focused and results-oriented Data Professional with extensive experience in Business Intelligence Consulting and financial services Risk Management functions, with a proven history of developing innovative solutions to complex problems.

- Simultaneously managing numerous highly visible projects, and collaborating across partners and organizations to achieve all immediate and long-term objectives.
- Consistently ensuring on-time and on-budget completion of quality deliverables.
- Outstanding communicator, capable of building and leading cross-functional teams, cultivating productive relationships with clients and external business partners.
- Committed to ongoing professional development and keeping abreast of all industry developments and trends to maximize team performance and ROI.

Areas of Expertise:

- Data Collection & Analytics
- Machine Learning
- Artificial Intelligence
- Cross-Functional Project Management
- Consulting & Portfolio Management
- Financial Services Risk Management
- Business Insights & Intelligence
- Visualization & Presentation
- Training & Mentoring

Technologies:

- Python, Pandas, Numpy
- SQL, SAS & Teradata
- Excel & VBA, Tableau
- Machine Learning (sci-kit learn & more)
- Classification and Regression Models
- Supervised and Unsupervised Learning
- Deep Learning (CNN, RNN)
- NLP (nltk, seq2seq, word2vec)
- Git & GitHub

Professional Experience

CHI INVESTMENTS • New York, NY • 2016 to Present

MANAGING PARTNER

Deliver in-depth Data Analytics, Business Intelligence, Machine Learning, and Artificial Intelligence solutions in an entrepreneurial, exploring and learning focused environment.

Key Accomplishments:

- Developing legal industry AI to assist lawyers in email classification, clients servicing, and case management. Fully immersed in data collect & clean, NLP, machine learning & deep learning, model optimization, and AWS.
- Leveraged Quantopian and machine learning technologies to perform stock market research and predictions. Achieved 27% increase in 2017 with $260K under management.
- Initiated project to provide residential real estate business intelligence. Empowered investors with intuitive visualizations of historical market performances and future projections.
- Implemented Machine Learning projects to collect & clean data, feature engineer, and perform model optimization. Skilled in technologies including feature engineering, PCA, Cross Validation, and model optimization.
- Implemented Artificial Intelligence projects including Game Playing Agents, Planning Search, Image Recognition, Time Series Prediction, Text Generation, Sentiment Analysis, and NLP Machine Translation. Proficient with technologies including Keras, tensorflow, CNN, RNN, LSTM, NLP bag-of-words, word2vec, and seq2seq.
- Demonstrated commitment to ongoing professional development. Acquired expertise in MySQL, Tableau, Python, Machine Learning, Neural Networks, and Artificial Intelligence, and AWS.

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AMERICAN EXPRESS • New York, NY • 2010 to 2016

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SENIOR RISK MANAGER, GLOBAL NETWORK SERVICES

Responsible for due diligence, data analytics, business intelligence, software solutions, project roadmaps, and execution assistance. Provided consultation throughout the lending lifecycle, conducted customer research, and managed cross-functional priorities to identify and resolve key issues, resulting in profit and customer service optimization.

Key Accomplishments:

- **Marketing & Acquisition:**
  - Directed innovative marketing campaigns with cluster analysis and business intelligence, focusing efforts on geographies with large potential revenues, resulting in a 12% YoY increase in merchant acquisitions.
  - Tripled account billings and reduced marketing expenses by 24% by leading and mentoring intern through small business modeling project.

- **Revenue Generation & Cost Reduction:**
  - Significantly improved client's corporate delinquency model performance by 24% with data collection, model development, testing, verification, implementation, and performance monitoring.
  - Overhauled client point of sale strategy to achieve a $16M (64%) increase in monthly default prevention with zero impact to POS approval rate.
  - Slashed collection inventory by 30% while adding $21M (22%) default to collection efforts, making agents focus on large dollar accounts.

- **Client Satisfaction:**
  - Prevented $12M in monthly default by leading deep dive research sessions to identify issues and implement solutions.
  - Automated key metric monitors and performed end-to-end client portfolio due diligence, resulting in $15M (12%) in incremental annual billing.

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AMERICAN EXPRESS • New York, NY • 2006 to 2010

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RISK MANAGER, CONSUMER RISK MANAGEMENT

Identified key opportunities, formulated innovative solutions and created functionalities to minimize losses, ensured timely delivery, and maintained best-in-class customer service satisfactions. Achieved industry leading delinquency rate during and after the recession.

Key Accomplishments:

- Implemented innovative methodologies to detect early delinquencies. Subjected 33% more delinquent dollars to preventative collection treatments and achieved industry leading portfolio delinquency rate during financial crisis.
- Solely responsible for $1.3M reduction in annual OPEX by automating small balance forgiveness procedures to improve customer experience.

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Education

Nanodegree Program, Artificial Intelligence
UDACITY • March 2018

Nanodegree Program, Machine Learning
UDACITY • November 2017

MASTER OF ENGINEERING, MECHANICAL AND AEROSPACE ENGINEERING
CORNELL UNIVERSITY • Ithaca, NY

BACHELOR OF SCIENCE, MECHANICAL AND AEROSPACE ENGINEERING
CORNELL UNIVERSITY • Ithaca, NY

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