**Christopher J. Madsen**

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**SUMMARY**

I'm fascinated by decision-making and how it can be applied. I’ve developed a robust set of skills to take data and turn it into usable information to the questions both people and firms face. My aim is to work in a role that lets me be part of making smart and strategic choices.

**SKILLS**

* Python (NumPy, SciPy, Pandas, Statsmodels, SciKit-Learn, etc.)
* Microsoft Office (Excel, PowerPoint, Word),
* SQL, Git
* Plotly & Tableau
* Spark, Hadoop
* SAS & STATA

**PROJECTS**

**General Assembly Capstone Project** Winter 2016-Spring 2017

*Oh the Udacity! User Engagement in Online Learning*

* Engineered analytical variables based on daily user engagement data
* Applied (classification method) to identify users unlikely to finish a course with XX% accuracy
* Recommended policy change predicted to increase user completion by YY%

**Senior Thesis** Spring 2014

*How Should an NFL Head Coach Act? A Game-Theoretic Perspective on Why Coaches Don’t Maximize Wins*

* Investigated if professional sports are an efficient market by examining strategy in the NFL.
* Using play-by-play data, examined the choices and risk-preferences of head coaches over a 7-year period.
* Employed a probit model to determine what factors influenced a coach’s decision.
* Demonstrated how coaches were being systematically irrational in their decisions.
* Showed that a coach’s strategic quality has no correlation with tenure or salary.

**Company Evaluation - The Tuck School of Business**Summer 2012

*Priced to Perfection: When the Market Gets It Wrong*

* Created a detailed Discounted Cash Flow analysis on commercial restaurant chain with 2.7B in revenue.
* Built a valuation model based on publicly available data
* Against popular analysis, pitched undervalued valuation of company to a group of Tuck professors, alumni and investors; stock price rose 33% over next year and 150% over 3 years.

**EDUCATION**

**General Assembly, Boston, MA** Winter 2016-Spring 2017

*Data Science Immersive Student*

Relevant Coursework: Programming, Statistics, Probability, Modeling, Machine Learning

**Colgate University, Hamilton, NY** Spring 2014

*Bachelor of Arts (B.A.), Mathematical Economics*   
Relevant Coursework: Microeconomics, Macroeconomics, Statistics, Econometrics, Probability, Mathematical Economics, Game Theory and Strategies, Applied Mathematics, Multivariate Calculus, Linear Algebra

**Dartmouth College - The Tuck School of Business, Hanover, NH** Summer 2012

*Business Bridge Program Graduate*  
Relevant Coursework: Corporate Finance, Financial Accounting, Marketing, Managerial Economics, Spreadsheet Modeling, Management Communication

**Award for Excellence in Spreadsheet Modeling**