

JULIAN MANGUINAO

Experience

Metis New York, NY
Data Scientist Apr. 2020 to June 2020

Completed a 12-week immersive data science bootcamp, which covered topics in Statistics, Machine Learning, Programming, Communication, and Design. Created four individual end-to-end data science projects will have been completed. Projects utilized a multitude of data science skills, including:

Regression

- Scraped data from multiple websites to aggregate NBA player salary and game statistics data. Created linear regression model to predict NBA player salaries.

Classification

- Designed classification models to predict the success or failure of a Kickstarter project. Embedded model into a Flask application that can be used to predict the success of a new Kickstarter project. Developed interactive Tableau dashboards to explore Kickstarter features of success.

NLP

- Processed 200,000+ Yelp reviews to analyze text from Pittsburgh restaurants reviews. Utilized unsupervised learning to develop topics to identify trends of gentrification in Pittsburgh's businesses. Developed interactive Tableau dashboards to explore Pittsburgh neighborhoods development by combining data from the topic modeling and census data.

Protiviti New York, NY
Manager Sept. 2015 to Mar. 2020

Innovation Resident Secondment

- Selected for a 3 month innovation resident rotation focused on pioneering the development of new services, testing new technologies, and implementing company wide best practices.
- Led and facilitated design thinking sessions with clients in order to design human centered solutions, which resulted in 2 new client engagements won.

Risk and Audit Metric Development and Implementation

- Served as project manager and oversaw a \$500k project budget, created project plan, developed work plans for 3 resources, and coordinated client interactions.
- Analyzed historical metric data to set thresholds using statistical analysis and identified new metrics to monitor performance. Refined and tested thresholds using scenario analysis, correlation analysis, Monte Carlo analysis, and stakeholder inputs. Thresholds and metrics were used by client to proactively monitor their audit operations and enterprise risk levels.
- Collaborated cross functionally with technology team to develop a custom reporting solution and designed interactive Tableau reporting dashboards.

Medicare Measure Analysis and Submission

- Served as project manager to test third-party vendor application and trained 50+ personnel to utilize the application to collect Medicare data from health care providers, in line with regulatory standards.
- Assessed potential shared savings payout based on performance of quality care measures. Coordinated with data and technology teams to optimize quality care measures using data from the application. Executed submission of quality care measures to regulator resulting in +\$10 million payout for shared savings program.

Sales Malpractices Review

- Identified sales malpractices themes by analyzing trends in complaints and employee allegations data. Results were presented to client and leveraged for an additional engagement to identify misconduct for specific business units.
- Orchestrated SQL data query requests, system access requests, and analytics requests between the business and analytics teams to meet tight deadlines.

Royal Bank of Scotland Stamford, CT
Operational Risk Analyst July 2014 to Aug. 2015

- Developed a senior management dashboard with 100+ key metrics monitoring operational risk across 10+ different functional areas.
- Coordinated training effort to document business controls and reported of progress of 800+ control rewrites over a 4-month period to senior management.

GE Aviation Boston, MA
Cost Analyst Co-op July 2013 to Dec. 2013

- Calculated weekly engineering costs and labor spend to identify trends affecting forecasted budgets.

Liberty Mutual Boston, MA
FP&A Analyst Co-op July 2012 to Dec. 2012

- Streamlined management report creation process with VBA and documented annual planning, analysis, and report cadence process.

Contact

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Education

Northeastern University
Bachelor of Science Finance 2014
Minor: Sustainable Business Practices
Magna Cum Laude
Reykjavik University (Study Abroad, 2013)
American College of Thessaloniki (Study Abroad, 2010)

Skills

Data Analysis

Python
SQL
Dask
Excel

Data Visualization

Tableau
PowerBI
Matplotlib
Seaborn

Machine Learning

Regression
Classification
NLP
Topic Modeling
Clustering
Decision Trees

Management

Design Thinking Practitioner
Metric Development
Project Management

Volunteering

Top Honors Oct. 2019 to Current
Math Tutor