

Luca Kurtz



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<https://github.com/ikup-hash/DS-Portfolio>



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EDUCATION

Georgia Institute of Technology, Atlanta, GA

Jun 2018 – Dec 2022

- B.S. in Industrial Engineering, concentration in Analytics and Data Science
- Dean's List student with 3.81 GPA, 3.80 Major Specific GPA – completed 124/131 Credit Hours
- Relevant Coursework:
 - Computer Science: Data Input/Manipulation, Database Systems, Simulation Analysis and Design, Advanced Regression/Forecasting, Advanced Optimization, Decision & Data Analytics
 - Statistics & Engineering: Calculus, Linear Algebra, Discrete Mathematics, Statistical Methods, Advanced Stochastics, Advanced Regression/Forecasting, Advanced Optimization

SKILLS

Tools: Python, SQL, R, TensorFlow, PyTorch, Keras, Scikit-Learn, Tableau, Power BI, Gurobi, Advanced Microsoft Excel Certification, etc

Concepts: Programming, software design, machine learning, classification, clustering, regression, statistical inference, collaborative filtering, experimental design, feature engineering, linear & nonlinear optimization, etc.

Clubs: Consult Your Community (CYC), Investments Committee (IC), Excel Mentorship

Communication: Creating presentations to drive business decisions, research projects, worked in team environment

PROFESSIONAL EXPERIENCE

Coca-Cola Bottlers' Sales and Services

Spring 2020, Fall 2020, Summer 2021

Data Analyst

- Created, updated, and maintained a repository of Power BI and Tableau workbooks for dashboarding and reporting purposes
- Pulled large datasets from SQL databases and used Python Pandas and NumPy for data formatting, cleansing, and model creation
- Created predictive forecasting models and classifiers using Python and R, hyper tuned parameters to inform business decisions regarding commodity pricing
- Drove the creation of automated updates for models and dashboards using Python and SQL

PricewaterhouseCoopers

Jun 2022 – Aug 2022

Intern Consultant - Operations Transformation

- Assisted a project setting up an International Sourcing Organization replacing a 3rd party agency to drive \$40 million in yearly client savings and de-risk the client's supply chain
- Delivered and presented acquisition research to determine short and long-term impact on the client
- Captured current state activities of the 3rd party sourcing agency to inform the new Sourcing Organization

LEADERSHIP

Excel Mentorship Program

Jan 2020 – Dec 2021

Health and Wellness Mentor

- Mentored and helped students with intellectual disabilities
- Met with students on a one-on-one basis, helped teach them the skills needed to become self-sufficient
- Aided the development of skills such as grocery shopping, healthy eating, and exercising

Programming / Data Science Projects (Located on Github)

World Leader Image Classification - Created a classifier using SVMs to distinguish between images of politicians

Drug Classification - Created a classifier exploring regression, neural nets, KNN, SVM, random forest, gradient boost, naïve bayes, and decision tree models to predict which medication to prescribe heart disease patients

Mushroom Classification - Created an ANN model to classify if mushrooms are edible, used TensorFlow and Keras

Risk Godstorm Simulator - Created a battle simulator for the popular board game Risk Godstorm