

Eric Cooper

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SKILLS

Programming Languages	Python, SQL, R, MATLAB
ML Tools & Packages	TensorFlow, Keras, Pandas, Numpy, Scipy, sklearn, matplotlib
Big Data Platforms	AWS Sagemaker, Apache Airflow, dbt
ML Skills	neural networks/deep learning, Bayesian decision, regression, classification

EXPERIENCE

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| Data Scientist , Teikametrics, Boston, MA | Jul 2020-Present |
| <ul style="list-style-type: none">Member of the Artificial Intelligence team for an ecommerce company with the directive of designing, maintaining, and improving a digital advertising multi-channel auction bidderProvided modeling on various machine learning projects including deep learning time series forecasting and keyword recommendations as they pertained to the bidderDeployed and maintained ML models via Sagemaker and AirflowCommunicated AI capabilities to internal stakeholders, customers, and engineers on other teams as part of AI SupportRetrieved data for analysis and use in ML models by writing ETL transforms using SQL and dbt (data build tool)Published 5 ecommerce articles relating to the work of the AI team to be used as marketing materials to attract and retain customers | |
| Insight Data Science Fellow , Insight Data Science, Boston, MA | Jan 2020- Jul 2020 |
| <ul style="list-style-type: none">Designed and deployed a Dash-based web app that allows government entities or other users to identify the location of probable lead water service lines in New York CityTrained and evaluated logistic regression, random forest, and naive Bayes classifier models to assign probability of the existence of a lead water service lineCleaned and combined 600k+ New York City public housing records and U.S. Census data containing housing value, construction date, lot size, neighborhood demographics, and GIS dataEngineered geospatial features to augment data acquired for use in water service line prediction | |
| Instructor , Boston University, Boston, MA | Jun 2013 - Aug 2019 |
| <ul style="list-style-type: none">Taught 9 mathematics courses during summer semesters in Applied Statistics, Calculus I, Calculus II, Multivariable Calculus, Linear Algebra, Ordinary Differential Equations to classes of 20-35 studentsIntegrated demonstrations in R into lesson plans for Applied Statistics course to teach regression, hypothesis testing, and ANOVACollaborated with faculty to design semester curricula, including daily lectures, quizzes, and midterms and final examinations | |
| Graduate Researcher , Boston University, Boston, MA | Sep 2012 - May 2019 |
| <ul style="list-style-type: none">Developed the mathematical framework to explain phenomena of randomly forced fluids observed by physicistsSimulated randomly forced dynamical systems using Monte Carlo methods and parallel computing in MATLAB on a shared computing clusterDerived finite-dimensional models of stochastic processes to analyze statistics and behavior of randomly forced systems of partial differential equations resulting in 2 publications to journals focused on nonlinear science, engineering, and mathematicsServed as President of the American Mathematical Society Boston University Graduate Student Chapter for one year, planning guest faculty lectures and professional development seminars on topics including journal submissions, CV writing, and summer workshop opportunitiesOrganized graduate student dynamical systems seminar for one year for graduate students in the research group to share noteworthy results and papers and enhance presentation skills | |

EDUCATION

Ph.D. in Mathematics , Boston University	May 2019
M.A. in Mathematics , Boston University	May 2014
B.A. in Mathematics , University of Virginia	May 2012