NICK OUELLET

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Data Scientist and Developer specializing in Python for Machine Learning and Deep Learning and Javascript for Web Development.

EXPERIENCE

Associate Data Science Researcher: Travelers - Claim Research **April 2020 – Present**

- Create data-driven deep learning models to solve vision and nlp problems of Travelers claims including chatbots, catastrophy detection, policy verification and segmentation
- Integrate the inherently exploratory data science workflow into an agile environment
- Develop models in AWS
- Train transformer-based models to make claim recommendations on OCR'd legal documents
- Manage an intern to develop model refresh and enhancement based on integrating unstructured text features and multiclass model consolidation

Senior Data Science Consultant: Travelers - Claim Research **April 2019 – April 2020**

- Perform EDA data and develop multiple predictive models at once
- Develop software to facilitate productionalization of predictive models
- Monitor production models to ensure consistency of operation
- Create a prototype platform to aggregate social media sentiment analysis about the company
- Train a deep learning model which won an enterprise-level national competition by Gartner

Data Science Consultant: Travelers - Claim Research **October 2017 – April 2019**

- Design, and test Python machine learning models implemented using the Model as a Service (MaaS) delivery framework for real-time cloud-hosted integration into current business workflow
- Use advanced tools and platforms, including Hadoop, Spark, Python, and SAS, to perform exploratory data analysis to determine business viability
- Lead classes of 15+ participants to teach Python and general best practices for developing machine learning models
- Perform data acquisition, preparation, and analysis
- Acquire data via web scraping from numerous regulatory sources

PROJECTS

Travelers Wildfire Detection Model **November 2018 – April 2019**

- Train a vision model to identify homes affected by wildfires from aerial imagery
- Develop a pipeline to train models on other catastrophe aerial imagery

LluviaHealth.com **November 2019 – Present**

- Develop a React web application to show the costs of medical procedures
- Help people find Covid-19 testing in their area

EDUCATION

University of Connecticut **September 2016 – June 2017**

- Master of Science in Mathematics
- GPA: 4.16/4.00

Brandeis University **September 2012 – December 2015**

- Bachelor of Arts, magna cum laude, Mathematics with honors
- Minors: Computer Science, Economics
- GPA: 3.72/4.00, Dean's List all semesters

SKILLS

- Web development: HTML, CSS (SCSS), JavaScript, React, NodeJS, Express, Graphql, Apollo
- Machine Learning and Data Science: Python, Pandas, Scikit-Learn, Pytorch, XGBoost, SQL, PySpark, SAS
- General: Rust, Lua, Docker, AWS, MongoDB, Neo4J, Git, Github (+ Actions), Shell (Bash + common tools), Make