NICK OUELLET

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Data Scientist and Developer focused on AI and Web Development.

EXPERIENCE

Manager of Data Science: Travelers - Claim AI   **March 2021 – Present**
  • Manage exploration of techniques to model on extremely long sequences of text in supervised and unsupervised fashions
  • Develop deep learning language models for coverage assessment on domain-specific legal documents
  • Deploy multiple models coordinated in AWS with Docker containers and ElasticSearch to process documents and classify them
  • Create deep learning vision solutions to predict catastrophy event severity from aerial imagery
  • Build a geospatial imagery pipeline to pull from a tiled image API with geocoding and spatial manipulation for an expansive aerial imagery EDA

Associate Data Science Researcher: Travelers - Claim AI   **April 2020 – March 2021**
  • 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 a complete CI/CD development cycle
  • 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 and software development 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 vision 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 AWS, Spark, Python, and SAS, to perform exploratory data analysis to determine business viability
  • Lead classes of 15+ participants to teach software development best practices with respect to machine learning modelling development and testing

PUBLIC COMPANY 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

FrankPrice   **November 2019 – Present**
  • Develop React web and mobile applications to show the costs of medical procedures
  • Help people find Covid-19 testing in their area
  • Utilize PostgresSQL and AWS for deployment

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, Spark, SAS
  • General: Rust, Lua, Docker, AWS, MongoDB, Neo4J, Git, Github (+ Actions), Shell (Bash + common tools), Make