Andre Ye

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Education

University of Washington, 2020-2024. Gifted youth - early entrance program. Working towards CS and machine learning.

Experience

Data Science and Artificial Intelligence Writer and Editor

- Won the Gold and Silver Award from KDnuggets, a leading data science site with over 700k+ visitors, for writing two of the most top-viewed and top-shared articles on the platform.
- Have written over 300 data science and artificial intelligence articles at `andre-ye.medium.com` for various top artificial intelligence publications. Articles viewed over ten million times. Awarded Medium Top Writer in AI and tech.
- Served as Editor of Data Science and AI Content of *The Data-Driven Investor*, which delivers content to over 23k+ readers in 95 countries daily.

Critiq – Peer Revision Platform

- Designed and coded Critiq (`critiq.tech`), a peer revision platform that matches students' essays for quick and effective revision, with HTML, CSS, JS, and PHP. Hosted with Heroku, used MySQL database and innoDB engine. Employed a variety of database and site security methods. Designed code to efficiently process essays, a large data format.
- Built and deployed a machine learning recommendation system to best match users' essays, optimizing performance with constraints on response time and computing capability. Solution was a subset-based matrix factorization to predict the ratings matched users would give each other.
- Marketed with Google search ads and measured user acquisition and retention w/ Google Analytics.

Awards

Top 4% in Kaggle Machine Learning Competition, Silver Medal

Placed in the top 4% of 4373 teams in the Harvard Laboratory for Innovation Science's Mechanisms of Action competition. Developed and coded a solution over several months involving heavy feature engineering and an ensemble of deep neural networks and TabNet models. Used TensorFlow and PyTorch for deep learning.

Global Nominee for NASA Space Apps Hackathon

Coded and presented a solution for NASA's Space Apps Hackathon. A large satellite-collected dataset from NASA databases was analyzed and modelled to predict the economic impact of wildfires. Used several machine learning, including gradient-boosted trees and model explainability methods. Was selected as one of two nominees to represent our region in international judging.

First Place at Washington State Computer Science Competition

Won first place for coding and presenting the project "Scholar: Scraping the Web" to a panel of judges. Scholar takes in a search query and uses a credibility score algorithm to determine how valuable and credible for research a site may be. Was coded in Python and utilized substantial web crawling methods.

Skills

Proficient in Python for data manipulation and handling, data visualization, parallel computing and big data solutions, machine learning, Keras/TensorFlow libraries for complex deep learning. Worked with computer vision, NLP, forecasting, ML-driven data analysis like customer segmentation, building machine learning solutions under heavy constraints.