





# Andre Ye

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## Education

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

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## Experience

### Data Science and Artificial Intelligence Writer and Editor

- Won the Silver Award from KDnuggets, a leading data science site with over 700k+ visitors, for writing one of the most top-viewed articles on the platform.
- Have written over 300 data science and artificial intelligence articles at [andre-ye.medium.com](https://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](https://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.
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## 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.

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## 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.