

# Applied Data Science (ADS) Background Knowledge Resources

## General Data Science Blogs/Websites

- [Towards Data Science](#)
- [Reddit | Data Science](#)
- [Reddit | Machine Learning](#)
- [DataCamp Community Blog](#)
- [Data Science Central](#)
- [KDnuggets](#)
- [Data Science Dojo](#)
- [FiveThirtyEight](#)
- [DataScience101](#)
- [R-bloggers](#)

## Online Courses

- [DataCamp](#)
- [Kaggle](#)
- [Coursera | AWS Machine Learning](#)
- [Coursera | AI on Azure](#)
- [Coursera | Dialogflow](#)
- [edX | Statistics and R](#)

## Data science competition/practice Resources

- [Driven Data](#) (hosts data science competitions to build a better world)

- [Kaggle](#) (best known data science competition web site)
- [Machine Hack](#) (Test & Practice Your Machine Learning Skills)
- [Machine learning Contests](#) (a data science competition aggregator site - lists ongoing competitions across Kaggle, DrivenData, AICrowd, and others)
- [Zindi](#) (the first data science competition platform in Africa - focused on solving Africa's most pressing problems)

# Information Management (IM) Background Knowledge Resources

## General Information Management Blogs/web sites

- [Stack Overflow](#)
- [Wired](#)
- [MIT Technology Review](#)
- [TechCrunch](#)

## Online Courses

- [Coursera | Critical Thinking for the Information Age](#)

## Certifications

- [AWS](#) (Solution Architect Cert., Machine Learning Specialty Cert.; Microsoft (Azure Fundamentals, Azure Admin. Associate)
- [Cisco](#) (CCNA/CCNP Cloud); Salesforce (Tech Architect)
- [CNCF](#) (Certified Kubernetes Admin, App developer)
- [GoogleCP](#) (Associate Cloud Engineer)

## Journals/Magazines

- [Communications of the ACM](#) (Association for Computing Machinery)

## Industry and Tech Trends Tracking and Analysis Resources

- [McKinsey Global Institute](#)
- [Deloitte](#)
- [Ernst & Young](#)

- [Boston Consulting Group](#)
- [Upturn](#)
- [Public Books](#)

## **Books**

- Cathy O’Neil (2016). *Weapons of Math Destruction: How Big Data Increases Inequality and Threatens Democracy*. New York, NY: Crown. (Intro to ethical and social implications of and Big Data)
- Michael A. Cusumano et al., (2019). *The Business of Platforms: Strategy in the Age of Digital Competition, Innovation, and Power*. New York, NY: Harper Business. (Primer on multi-sided markets, digital technology, and business transformation)
- Richard E. Nisbett (2018). *Mindware: Tools for Smart Thinking*. New York, NY: Farrar Strauss & Giroux. (Primer on probability, statistical reasoning, decision analysis)