

Nicholas J. Adams-Cohen

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EXPERIENCE

Applied AI Research Scientist

Accenture Artificial Intelligence Operations

Accenture

2021 – Present

- Implement and execute end-to-end design and development of functional AI solutions.
- Create data visualizations and present solutions to clients and non-technical product teams.
- Research, apply and develop machine learning and data science methodologies.

Data Scientist

Stanford Immigration Policy Lab

Stanford University

2019 – 2021

- Design, improve, and apply machine learning and matching methodologies to improve immigration policy.
- Travel internationally to engage with government stakeholders, presenting findings and proposing policies.

Project Lead

Anandkumar-Alvarez Trustworthy Social Media Research Group

Caltech

2019 – 2021

- Manage research projects that aim to improve social media environments utilizing advanced AI and NLP methods.
- Produce papers presented in NeurIPS AI for Social Good, ICML WIML, Polmeth, and APSA conferences.

PROJECTS

B2B Agent Assist – Text Summarization | *Python, Java*

- Designed and implemented a solution to automate large-scale customer communication for real-time inquiries.
- Developed AI to summarize multiple documents while maintaining subject-area context in customer language.

Email Concierge | *Python, SQL, Docker*

- Deployed an AI solution for email routing and response for a multinational biopharmaceutical company.
- Included email resolution, automated c-sat/sentiment analysis, and real-time translation.

Stanford, GeoMatch | *R, Python*

- Develop and fine-tune ensemble supervised learning models to predict outcomes for migrants and refugees.
- Engage in large-scale A/B tests with government agencies to evaluate and implement GeoMatch software.

Monitoring the Election | *R, Python, SQL, Javascript, HTML/CSS*

- Collect, store, and analyze terabytes of tweets during three United States election cycles.
- Process streaming data with Google Cloud Computing, visualizing data trends in an interactive web interface.

EDUCATION

California Institute of Technology

Ph.D. in Computational Social Science

Pasadena, CA

2019

Stanford University

M.I.P. in International Political Economy

Palo Alto, CA

2014

SELECT PUBLICATIONS

Securing American Elections: How Data-Driven Election Monitoring Can Improve Our Democracy

Book published by Cambridge University Press, 2020

Policy Change and Public Opinion: Measuring Shifting Political Sentiment With Social Media Data

Article published in American Politics Research, 2020

Generating Personalized Insights from Government Data: An Application to Skilled Immigration Programs

Article under review at SIGKDD, 2022

EXPERTISE

Empirical Methods: Statistical Modeling · Experimental Design · Observational Causal Inference · Survey Design

Machine Learning and NLP: Neural Networks · Ensemble Methods · Sentiment Analysis · Topic Models · Embeddings

Programming Languages: Python · R · SQL · Javascript

Libraries: SciKit-Learn · Django · Flask · nltk · Pandas · NumPy · PyTorch · Keras · caret · stringr · zoo · ggplot2