

Adam P. Jones

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meccaLeccaHi

Experienced data scientist proficient in the interpretation and visualization of data using Python, Matlab, and R. Proven ability to work either independently or as part of a team, and to communicate results in a precise, intuitive format to stakeholders of various technical backgrounds. Intent on applying these skills to data science problems, particularly those that involve machine learning.

Experience

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|---|------------------------------|-------------------------------|
| 03/2018-Present | Lead Instructor | General Assembly |
| <ul style="list-style-type: none">• Distinguished Faculty Member for Data Science and Python Programming training programs.• Developed course content on a variety of technical subjects and mentored students (from companies including Intuit, eBay, and LinkedIn) through individualized projects on topics such as time-series forecasting, recommendation systems, fraud detection, and sentiment analysis. | | |
| 06/2017-06/2018 | Lead Data Scientist | Critical Juncture |
| <ul style="list-style-type: none">• Identified strategies, via academic literature review, for improving the accuracy of a medical record linkage system providing clinical performance metrics to more than 200 hospitals.• Implemented probabilistic record linkage (naive Bayes) and neural network classifiers to match records over multiple databases using 'fuzzy' matching, reducing non-matched records by $\approx 75\%$.• Trained convolutional neural network models to locate and classify images embedded within the digital archives of the Federal Register (with $>98\%$ accuracy), improving the readability and accessibility of decades of government documents. | | |
| 01/2016-05/2017 | Post-doctoral Researcher | Neurosurgery - U. of Iowa |
| <ul style="list-style-type: none">• Implemented and maintained image/sound processing tools for realistic "morphing" of the identities of faces and voices, for use in human neurophysiological studies.• Developed 'gamified' stimulus presentation platform, integrating feedback from joystick and eye-tracker devices, resulting in $\approx 25\%$ greater participation by pediatric patients.• Designed and conducted browser-based experiments via Amazon's Mechanical Turk API (using HTML, CSS and Javascript), reducing data collection costs dramatically. | | |
| 10/2012-10/2015 | Pre-doctoral Research Fellow | National Institutes of Health |
| <ul style="list-style-type: none">• Designed, deployed, and maintained a data processing pipeline for large volumes of electrophysiological data, which included dimensionality-reduction and clustering of neural events.• Decoded neural responses of rhesus macaques to face images using GLMs.• Presented results via invited lectures (3), posters (8), and written reports (3 journal articles). | | |

Skills

Tools: Python (NumPy, pandas, Keras), R (dplyr, ggplot2, Rmarkdown), SQL, Jupyter, UNIX, Flask, LaTeX, Matlab, parallel processing (TensorFlow/Theano), distributed computing (cluster, AWS)

Analysis: multivariate analysis, hypothesis testing, Bayesian statistics, machine learning, neural networks, image processing, signal processing (spectral analysis)

Education

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| 09/2009-12/2015 | PhD (Neuroscience) | University of Maryland |
| 09/2002-04/2007 | BA (Biology/Psychology) | University of Montana |