Emmanuel Ameisen

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Professional Experience

AI Fellow
Insight Data Science

Palo Alto, CA
February 2017-Present

- Engineered deep learning models in Tensorflow to transform speech from one style to another
- Created a custom convolutional variational auto-encoder for end-to-end speech transformation
- Built a classifier to detect differences between accents of English speakers
- Prototyped a Reservoir Computing method to identify and extract style from spectrograms

Data Scientist
Zipcar (ex-LocalMotion)

San Mateo, CA
March 2015-Feb 2017

- Implemented an end-to-end rebalancing system integrated in production. Programmed a front end for fleet managers to rebalance cars which lowered maximum idle car time by 80%
- Created a simulation framework in Python to optimize Zipcar's parking footprint and allow for product feature testing, such as smart rebalancing and automated cleaning
- Developed a statistical demand prediction model in Python to selectively turn readers in cars off. Used Pandas for data pre-processing and Scikit-Learn for Machine Learning. Improved car battery savings by over 20% while impacting less than 0.1% of users
- Engineered a library used to detect dependency conflicts and deployed micro-services to always satisfy dependencies, resulting in the speed up of deployments and prevention of critical conflicts
- Designed an algorithm to automatically clean incoherent GPS tracks to improve distance calculations and perceived reliability

Engineering Intern
CloudMoDe

Henderson, NV
June 2014-August 2014

- Built an automated integrated continuous deployment system from the ground up using Docker for automation, Ansible for deployment, and GitHub for integration
- Improved the time necessary to both setup and update servers by a factor of 10. Reduced setup time from 40 minutes down to 4, as well as update time from 10 minutes to less than one

Computer and Language Skills

Languages: Python, Go, Java, JavaScript, HTML/CSS, SQL, MongoDB (some exposure), Spark (some exposure)
Machine Learning: Tensorflow, NumPy, Pandas, Scikit-Learn, NLTK (some exposure)
Frameworks and Tools: Flask, D3.js, Matplotlib, jQuery (some exposure), Bootstrap (some exposure)

Projects

On Demand Review Clustering
Created a prototype of a web application to dynamically visualize and summarize large quantities of reviews for any restaurant listed on Yelp. Used word2vec and NLTK for the Natural Language Processing part of the application, and Flask and D3.js as the server/visualization stack.

Automatic Schedule Matching for Networking Events
Built an application to automatically schedule meetings within communities according to participants' availabilities. Connected over a hundred users for spontaneous networking events.

Education

Master of Science in Electrical and Computer Engineering
Supélec

Paris, France
2009-2015

Key courses: *Advanced Probabilities, Statistics, Numerical Methods of Optimization, Computer Architecture, Programming Concepts, Algorithmic Complexity, Mathematical Logic, Artificial Intelligence, Data Mining*

Research Master in Artificial Intelligence, Machine Learning, and Statistics
Université Paris-Sud

Paris, France
2014-2015

Key courses: *Statistics, Learning and Optimization, Advanced Statistical Learning, Robotics and Autonomous Agents, Multi Agent Systems, Research Methods*

Master in Management
ESCP Europe

Paris, France
2012-2015

Completed an exchange program at Cornell University's ILR school, studied Entrepreneurship and Human Resources (Conducted research for Fortune 100 companies on HR best practices)
Key courses: *Strategy, Psychology, Marketing, Finance*