

Eric N. Moyer

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DATA SCIENCE & MACHINE LEARNING PROJECTS

Datastream Analysis for Large Synoptic Survey Telescope

Used a Keras recurrent neural network to classify time-varying astronomical sources in a simulated data stream for a new telescope under construction in Chile.

Detecting Pneumonia in Chest X-Rays

Used a YOLO (You Only Look Once) convolutional neural network to detect pneumonia in x-ray images; trained for 24 hours on Amazon EC2, Kaggle score .098.

Ongoing Independent Study

Current foci are R and RStudio, R Shiny, the tidyverse ecosystem, and computational neuroscience.

RELEVANT EMPLOYMENT

Systems Engineer, Library Technologies / RMK Properties

Moved LTI into the AWS cloud; provide data cleanup and migration services; created searchable online client database; wrote server software for proprietary TCP/IP-based protocol; develop and maintain software tools and customer portal; develop electronic devices for remote monitoring and control; provide technical support to staff and customers.

Programmer, Primavera Systems

Maintained and enhanced 100K lines of legacy FORTRAN; designed and led the development in C of Primavera's first Report Writer module; delivered presentations at the annual user conference; provided customer support during major releases; taught programming courses.

Data Scientist, Part-Time Self-Employed

Worked with social media marketing company to improve campaign performance; provided consulting in Excel for dental practice; created and delivered custom Excel training.

OTHER EXPERIENCE & INTERESTS

Launched Chalfont Machine Learning Meetup and gave presentations at events; interested in linear algebra, statistics, Tufte-style graphical presentation, and LaTeX typesetting; tutored math for many years; facilitate various small groups; created teaching videos; served for 5 years as instructor in Pennsylvania Motorcycle Safety Program.

EDUCATION & CERTIFICATIONS

*AWS Certified Cloud Practitioner
Training Certificate*

Project Management Certificate

Bachelor of Science in Mechanical Engineering

*Amazon Web Services Training & Development
Association for Talent Development (Formerly ASTD)*

The Pennsylvania State University

Drexel University