Colton L. Kinstley

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Profile

Applied mathematician, data scientist and full stack ML engineer. I led the development of the data science platform at The Filter. I have extensive experience programming in python and I've worked in all levels of the machine learning product stack, from linux admin to ML model design to launching containerised applications for live service. I also program in Haskell and tinker with the Raspberry Pi Pico microcontroller for fun.

Tools

Business

Pleasure

Experience

DATA SCIENTIST, THE FILTER; BATH, UK – 2018-PRESENT

- Principal architect and developer of the python data science (DS) platform at The Filter. This software supports the rapid and reusable development of DS predictive models, tools and analytics. The platform presents a set of loosely coupled classes representing 5 stages of data flow during our DS process: source data procurement, processing, feature engineering, modelling and evaluation.

- Principal ML engineer responsible for productionising models used in our SaaS platform. A reliable and robust interface is achieved by running containerised software accessible via an http endpoint.

- Developed content based and collaborative filtering models for streaming video customers. These models are constantly improved using offline evaluation and an in-house A/B hypothesis testing engine.

INSTRUCTIONAL ASSISTANT, UNIVERSITY OF HOUSTON, USA – 2016-2018

- Developed and presented 1 hour lectures for Calculus recitations of 60 students 3 times weekly.

- Evaluated and provided feed back to students in their performance on written assignments, MATLAB code and exams in Calculus, LinearAlgebra and Discrete Mathematics.

SENIOR S.I. LEADER AND TEACHING ASSISTANT, AUSTIN COMMUNITY COLLEGE, USA – 2014-2016

- Developed lesson plans covering material from course lectures focused on active learning and group problem solving activities.

- Provided individual tutoring to over 100 students at any given time in the ALECKS program; an adaptive, artificially-intelligent learning system that provides students with an individualised learning experience.

Education

University of Houston – Master of Applied Mathematics

University of Texas at Arlington – Bachelor of Business Administration