T.J. Bay

tjbay@stanfordalumni.org // github.com/tjbay // (650) 380-3473

SUMMARY

Data scientist experienced in end-to-end data products, predictive analytics, and machine learning.

EXPERIENCE

Senior Data Science Engineer 2020 - Present, Sojern Building machine learning models and end-to-end data pipelines to optimize travel-based ad campaigns.

Senior Data Scientist 2017 - 2020, Ask Media Group Built ML microservices and data pipelines to support many parts of the company: NLP on decades of search queries, ad optimization, text clustering to find gaps in original content coverage, web scraping.

Co-founder and Co-organizer, 2015 - present, SF Big Analytics meetup SF Big Analytics has nearly fifteen thousand members, making it one of the largest tech meetups, and has featured several well-known speakers. Taught a three-part introduction to deep learning workshop.

Lead Data Science Advisor 2014 - 2017, Alpine Data Data science consultant to Alpine customers. Selected projects: Lead development of a Python API, lead developer for machine learning algorithm correctness testing framework, solved customer use-cases, developed and taught a four-week machine learning class to the Alpine engineering team.

Data Science Instructor 2016 - Present, Metis Taught two cycles of a six-week Introduction to Data Science class.

Adjunct Professor, 2011-14, Various Taught astronomy at Stanford, U.C. Berkeley and SFSU as an adjunct professor. During this time period I also worked with the non-profit Tutorpedia Foundation that provides free math and science tutoring to children from low-income families.

Physicist, 2007-2011, Stanford University Studied the microscopic behavior of gravity to search for compact extra dimensions. Relevant duties include analysis of time-series data, real-time visualization, and reduction of data to measure the weight of the Earth.

SKILLS

Data I am proficient in the Python data science stack including scikit-learn, pandas and Jupyter as well as SQL, Git, Gitlab and Github, AWS, Docker, PyCharm, and Postman. I have experience with distributed computing and machine learning using Spark and dask. I also have some slight experience with Scala, Solr, Matlab, R, and Pig.

EDUCATION

Ph.D. Physics, Stanford University - Advances in the optical imaging transition-edge sensor array

B.A. in Physics, Mathematics and Integrated Science, Northwestern University