T.J. Bay

github.com/tjbay // tjbay@stanfordalumni.org // (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 microservice-based machine learning systems to optimize travel-based ad campaigns.

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

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

Lead Data Science Advisor 2014–2017, Alpine Data Data science consultant to Alpine customers. Selected projects: Led development of a Python API wrapper, 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 organization.

Data Science Instructor 2016–2017, 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, GCP, Docker, PyCharm, and Postman. I have experience with distributed computing and machine learning using Spark and dask. I also have some lesser or more distant 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