

Matthew Kang

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EDUCATION

University of California San Diego | La Jolla, CA

2017 – 2021

CS Machine Learning, minor in Data Science

- *Eleanor Roosevelt Honors Program, Provost Honors, Design Club, Triton Barbell, Data Science Student Society*
- *Relevant coursework: Data Structures & Algorithms; Machine Learning Algorithms; Data Modeling & Analysis*

EXPERIENCE

Coding Instructor

2021 - Present

Hackingtons | Pleasant Hill, CA

- *Teach HTML, CSS, and JavaScript through project-based learning. Teach basic DOM manipulation and how to interact with web APIs using tools like Ajax, jQuery, and vanilla JS. Handle classes with 30+ students.*
- *Guide students through building web applications with CRUD capabilities using Django & Flask in Python.*

Instructional Assistant

2019 - 2020

UC San Diego | La Jolla, CA

- *Instructional assistant for COGS 10 – Cognitive Consequences of Technology, taught by distinguished professor James Hollan. Helped proctor and grade exams for a class of 200+ students.*
- *Held weekly tutoring sessions to discuss lecture topics and help students prepare for exams.*

PROJECTS

BranchBase – Fullstack Django Application

- *Developed a web application with Django, using AWS S3 for storage, AWS IAM for setting user permissions, and PostgreSQL for storing user records. The application itself is hosted on Heroku.*
- *Programmed custom made class-based views, URL routes, HTML templates, and data models.*

Big Data Analysis of Chicago Taxicab Driver Data

- *Used Python to analyze a dataset of 30,000,000+ points. Used Dask to conduct computations in parallel.*
- *Computed taxi trip duration as the greatest factor affecting taxi tip by using correlation coefficients.*

Machine Learning Algorithms Performance Testing

- *Calculated performance analytics of K-NN, SVM, and Logistic Regression on datasets of 10,000+ rows.*
- *Optimized configuration for K-fold cross validation using hyperparameter tuning.*

TECHNICAL SKILLS

- **Data** : Python, Pandas, Matplotlib, NumPy, Scikit-Learn, SQL, PostgreSQL, SQLite
- **Web Dev** : HTML, CSS, JavaScript, Django, Flask, Bootstrap, AWS S3
- **Misc** : Jupyter, GitHub, Visual Studio Code, Figma, Adobe Lightroom, Photoshop, Excel

INTERESTS & MEDIA

- *Weightlifting, Golden State Warriors, exploring bay area restaurants, farmers markets, festivals, and parades.*
- *Intermediate fluency in French and Korean.*
- *GitHub: <https://github.com/matthewikang>*
- *Personal website: <https://mattkang.com>*