Kailing Ding

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Hi, I'm a data scientist with full-stack and model deployment experiences.

EDUCATION

UC SAN DIEGO
BS in Data Science
2018 - 2021
GPA: 3.6
Provost Honors: 2018 - Present

LINKS

LinkedIn:// kailingding
Github:// @kailingding

COURSEWORK

UNDERGRADUATE
Data Mining
Machine Learning
Relational Databases
Data Visualization
Natural Language Processing
Artificial Intelligence
Advanced Data Structures and Algo
Object Oriented Algorithms and Design
Software Engineering for IoT Apps

SKILLS

PROGRAMMING LANGUAGE
• Python • Java • JavaScript • SQL
• HTML • CSS

ML KNOWLEDGE
• Time-series Forecasting • Model Optimization • Supervised Learning
• Linear Model • Data Visualization
• Tree-based Models • Interactive Chart

FRAMEWORKS AND LIBRARIES
• Sklearn • Tensorflow • Pandas
• Numpy • ReactJs • React-Redux
• NodeJs • ExpressJs • MongoDB
• PostgreSQL • AWS EC2/ROUTE 53
• Highcharts • D3

INDUSTRY SKILLS
• Git • Agile Development
• Unit Testing • Trello

EXPERIENCE

FULL-STACK DATA SCIENTIST | UCSD Triple C
Jan 2020 – Present | self-employed | San Diego, CA
- Develop a sales forecasting and analytics product for restaurants that eliminate food waste and under/over-staffing. (Dashboard-liked Web App)
- Implemente time-series forecasting algorithm for predicting product sales using features such as historical sales data, weather, events, and holidays.
- Code ReactJS for frontend components, ExpressJS for web app server, MongoDB for databases.
- Utilize multiple charting libraries such as Highcharts and D3 for charts in the dashboard.

DATA SCIENCE INTERN | GAC R&D Center Silicon Valley
June 2019 – Sep 2019 | AI Team | Sunnyvale, CA
- Developed and optimized the prediction model for the health of electric cars' battery with an accuracy score of 88% by engineering features using Sklearn.
- Created time-series data visualization based on the vehicle's sensor data that helped the team determine important features for modeling.
- Wrote unit tests for the prediction model.
- Presented complex technical information in a clear and concise manner to other non-technical colleagues.

PROJECTS

2ND PLACE IN UCSD DATAHACKS March 2020
Developed time-series forecasting algorithms to predict UBER travel time in San Francisco Area and provided actionable insights (with features recommendation) for UBER to enhance both user experiences and customer loyalties.
- Used: Sklearn, Statsmodel, Pandas, Seaborn, Weather Service API, Data cleaning, Feature Engineering, User-Centric Analysis

TIKTOK'S DATA VISUALIZER March 2020
An interactive data visualization for TikTok's growth statistics using multiple JS charting library.
- Used: Highcharts, Responsive Design, TikTok's API, HTML, CSS, Github Page

MASTER OF CLASS Sep 2019 – Jan 2020
Built a website with authentication that allows UCSD student to search their courses' group chat QR code. (1000 users)
- Used: ReactJs, ExpressJs, AWS EC2/Route 53, JWT, Bcrypt, React-Select, Redux, HTML, CSS

PASSWORD STRENGTH CLASSIFIER June 2019
Implemented Gaussian Naive Baye's Classifier which is able to classify a password's security level.
- Used: Sklearn, Pandas, Numpy, Jupyter Notebook

INVOLVEMENT

- UCSD Triple C (A Technology-driven Business Incubator)
- Eta Omega Chi (Professional Fraternity)
- Extreme Sports (Scuba Diving, Snowboarding, etc.)