DanBi Han

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EDUCATION

UNIVERSITY OF PENNSYLVANIA
Aug 2018 - May 2021

- BA in Economics
- Minors in Math & Statistics
- GPA: 3.93 / 4.00

RICE UNIVERSITY
Aug 2017 - May 2018

- GPA: 4.13 / 4.30

COURSEWORK
* Graduate level
** Teaching assistant

- Bayesian Data Analysis
- Stochastic Processes
- Methods in Forecasting Management*
- Big Data Analytics*
- Predictive Analytics*
- Data Mining*
- Linear Algebra
- ODEs & PDEs
- Real Analysis
- Brain-Computer Interface*
- Statistical Computing with R**

SKILLS

TECHNICAL

Python | R | SQL | Git | MATLAB | Machine Learning

SOFT

Leadership | Resourcefulness | Analytical Thinking | Grit

MOOCs

Using Python for Research
by Harvard University | edX

Machine Learning
by Andrew Ng | Coursera

CS229: Machine Learning
by Andrew Ng | Stanford University

WORK EXPERIENCE

DATA SCIENCE INTERN
June 2020 - Present
goPuff | Philadelphia, PA

- Investigated driver churn issue by (1) querying raw data from multiple data sources, (2) munging them into desired data structure, (3) engineering creative features, (4) building and evaluating predictive classifiers, and (5) exploring informative features to communicate insights to stakeholders
- Improved order volume forecast (5% reduction in MAPE) via incorporation of Orbit as a candidate model in ensembler

SAT & AP INSTRUCTOR
Nov 2017 - Present
Zinkerz Online Educators | Boston, MA

- Enhanced academic performance of over 50 students on SAT Math (+120 points on average), SAT Math II, and AP Economics exams via one-on-one bi-weekly lessons, adaptive teaching strategies, and long-term rapport
- Administered intensive, four-day AP Microeconomics boot camp in Panama for a group of 32 students

DATA SCIENCE INTERN
Sept 2019 - Dec 2019
Hindsight Technology Solutions | New York, NY

- Scraped hundreds of online articles by using Beautiful Soup to parse HTML
- Identified patterns and syntactical rules to automate corpus cleaning process
- Utilized RegEx to extract entities and build training set for classifier

PROJECTS

BCI MOTOR CONTROL
Apr 2020 - May 2020
BE 521 final project | Philadelphia, PA

- Decoded finger movements (precise flex angle) for all fingers, given time-series ECoG training data from 3 subjects, using frequentist Elastic Net

PENN HUMAN RESOURCES
Oct 2019 - Dec 2019
Wharton Analytics Fellows | Philadelphia, PA

- Predicted employee turnover rate for next two years using seasonal ARIMA and identified cohorts at low- vs. high-risk using Random Forest
- Analyzed driving factors and presented data-backed recommendations to VP-level management in order to fill gaps in talent development

LEADERSHIP

EDUCATION COMMITTEE
Sept 2019 - Present
Wharton Undergraduate Data Analytics Club | Philadelphia, PA

- Designed curriculum, crafted lesson plans, and taught *Analytics 101 in R* sessions for students new to data science

CRISIS LISTENER
June 2015 - Aug 2017
Community Helpline | Palos Verdes, CA

- Facilitated 50 hours of training: demonstrated role plays, addressed tricky questions, and assessed each trainee's progress with supervisor
- Mentored new crisis counselors on call and provided constructive feedback