

# Doran Bae

## Data Science | Analytics | Machine Learning in Production

Experienced in delivering machine learning products for use cases including recommender systems, customer analytics, and prediction

### PROFESSIONAL EXPERIENCE

**TVB New Media Group**, Hong Kong – *Data Scientist* Apr. 2017 – Current

TVB NMG operates the biggest video-on-demand platform in Hong Kong

- Lead multiple machine learning projects for 5 consumer platforms and drive them to successful completion to serve 5mn subscribers
- Build, validate and deploy machine learning models to personalize user experience by applying deep learning algorithms, clustering, collaborative filtering, feature selection/regularization, continuous bag of words language model, probability theory, and statistics
- Design and implemented predictive models applying regression, decision trees, and probability to predict customer churn
- Design and execute analyses and A/B tests to validate models and drive product improvements and confidence when rolling-out new features

**eBay**, South Korea – *Data Analyst* Sep. 2013 – Apr. 2017

- Managed big data projects including executive dashboards and ensure data quality across multiple data pipelines
- Identified value propositions and launched a new daily deal service
- Projected future growth in sales using predictive models and developed actionable initiatives including fee optimization

**EAID**, South Korea – *Data Analyst* Oct. 2010 – Nov. 2012

**KPMG**, South Korea – *Consultant* Nov. 2008 – Sep. 2010

### PROJECTS AND PRESENTATIONS

#### Big Data & Machine Learning Leaders Summit Hong Kong 2018

- Give a presentation on productizing machine learning models to over 100 IT leaders, data scientists, and AI engineers at a prestigious big data conference hosted by Forward Leading

#### Personal projects and machine learning tutorials

- Built end-to-end deep learning model predicting the winners in a Korean cooking show using multi-class classification on Keras
- Built an intelligent image-based communication system for nonverbal children to be used as a part of speech therapy
- Constructed a crowd sourcing data gathering platform to gather data to train a neural network translation model
- Write tutorials on topics including machine learning, cloud, project management and leadership

### EDUCATION

**University of California**, Berkeley, CA May 2015 – Aug 2017  
*Master of Information and Data Science*

**University of Michigan**, Ann Arbor, MI Sep 2004 – May 2008  
*Bachelor in Economics*

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 dorandoran.xyz

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 dorandoran@gmail

### SKILLS

Programming:  
**Python**

Data Science:  
**Deep Learning**  
**Recommendation**  
**Natural Language Processing**  
**Forecasting**  
**Predictive model**  
**Statistic**  
**Scikit-learn**  
**Keras**  
**Spark**  
**A/B Test**

Tools:  
**Google Cloud Engine**  
**Google BigQuery**  
**Google Data Studio**  
**Azure ML Studio**  
**MS Power BI**  
**Git**

Language:  
**English**  
**Korean**