

Jonathan Zhao

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Skills

Data Cleaning/Wrangling	Exploratory Data Analysis	Data Visualization	Matplotlib	Seaborn
Natural Language Processing	Clustering	NLTK	TF-IDF	SpaCy
TensorFlow/Keras	Convolutional Neural Network	Scikit-Learn	Numpy	Pandas
Regression	Classification	Python	SQL	Tableau

Project Experience

Narrative analysis for League of Legends

- Exploratory data analysis for in-game data across different regions.
- Conducted an A/B test to check if Rift Herald will shorten the average game length in Season 6 (with Rift Herald) comparing to Season 5 (without Rift Herald).

Detect Sarcasm in News Headlines

- Utilized Python modules Tldextract, Spacy, NLTK, and TF-IDF for data wrangling 20k+ News headlines.
- Compared classification models (Random Forest and MLP) against clustering algorithm (K-Mean).

Predict Win Placement Percentage in PlayerUnknown's Battlegrounds (PUBG)

- Exploratory Data Analysis for over 4 million PUBG games and filter out cheaters during data cleaning.
- Built a regression model using LightGBM to predict Win Placement Percentage for individual players.

Detect Pneumonia using Chest X-Ray Images

- Resized, shuffled, and augmented over 5 thousand images to create unbiased data set.
- Utilizing TensorFlow/Keras to build CNN model and achieved 86.86% validation accuracy.

Work Experience

Field Application Engineer

IEI Technology USA | Pomona, CA | September 2016 – Present

- Built traffic tracking, object detection, and face recognition demos with Intel OpenVINO in Linux environment.
- Conducted hardware troubleshooting down to board components level.
- Troubleshoot Windows and Linux issues and generated failure analysis report.

Technical Account Manager

Ma Labs, Inc. | San Jose, CA | March 2016 – September 2016

- Configured and built high-density server, blade server, and SMB server solution.
- Re-organized online product listing to increase sale revenue by 400% in 2 months.
- Developed and strengthened partnership between customer and vendors.

Technical Support Specialist

Shuttle Computer Groups | City of Industry, CA | December 2014 – February 2016

- Provided product training to sale team, including new product training and latest industry trends.
- Tested and validated new products. Generated new product report for the company.

Field Sale Engineer

Athena Computer Power Corp. | City of Industry, CA | March 2013 – February 2014

- Created 2D/3D chassis designs using AutoCAD and Solidworks.
- Provided first tier technical supports and managed project progress.

Education

Data Science Intensive Program

Thinkful | Los Angeles, CA | December 2018 – July 2019

Bachelor of Science in Environmental Resources Engineering

SUNY College of Environmental Science and Forestry | Syracuse, NY | August 2008 – May 2012