Yung Han Jeong

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Experience

Mechanical Engineer – PowerFleet, Inc (PWFL) February 2017 – April 2020

- Developed automated data collection and analysis process for efficient product testing and analysis.
- Formulated mathematical models for prototyping and executed variety of field test.
- Executed engineering documentation control and implemented automated scripts to reduce document processing time.
- Lead and consolidated product testing with engineering standards such as MIL-STD, SAE, and ISO

Manufacturing Solutions Engineer - *AMS CAD + CAFM Solutions* Nov 2015 – Feb 2017

- Document application process and workflow and maintain Standard Operation Procedures (SOP)

Projects

Hospital Readmission Prediction of Diabetic Patients 2020

- Developed accurate multiclass prediction model using decision tree and random forest models.
- Hypertuned individual models using grid search cross validation method to increase model performance.
- Formulated new features based on relevant academic studies and exploratory statistical analysis.

King County Housing Price Prediction 2020

- Implemented multiple linear regression model to predict housing prices using sklearn and scipy libraries.
- Engineered new features to improve model performance based on visual and statistical analysis.

Chassis Axle Strain Sensor 2019 – 2020

- Led new product investigation through research, reverse engineering, and concept designs.
- Developed mathematical model for prototype validation using Python with numpy, simpy and matplotlib.

Digital Accelerometer Sensor 2018 – 2019

- Streamlined device testing through automated signal collection, signal processing, and data visualizaiton
- Filtered and statistically analyzed sensor output using Python with pandas, numpy, and matplotlib.

Education

Flatiron School, Manhattan Campus Fall 2020
Data Science Immersive

- Demonstrated effective problem solving and Python coding skills through various project work
- Developed effective machine learning models techniques utilizing industry standard hypertuning methods.

The College of New Jersey Ewing, NJ 08628 Class of 2015
Bachelor of Science in Biomedical Engineering, *Mechanical Concentration*

- IEEE Publication: *Optimizing Mandibulomaxillary Plate Fixation by Computerized Simulation*

Related Skills and Information

- U.S. Citizen
- Python Certification – HackerRank, LinkedIn
- English and Korean bilingual