JAHNAVI KALPATHY | Data Scientist

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SUMMARY

I am a Data Scientist coming from systems engineering, with a passion for sustainability. My experience in telematics and testing in the automotive industry shaped how I understand customer-facing products and work with diverse stakeholders. I hope to leverage my data science skills in Regression and Classification and collaborate with peers to answer data-driven questions.

SKILLS

Machine Learning - Regression | Classification | NLP | Neural Networks | TimeSeries
Programming - Python | Pandas | Numpy | Scikit-learn | gretl | SQL | Tensorflow | Web scraping | Streamlit
Data Visualizations - Matplotlib | Seaborn | Plotly | Tableau
Software - JupyterLab | Microsoft Office | GitHub | Google Suite | Matlab | SolidWorks | Confluence | JIRA
Hardware - CNC Machine Tools | Manufacturing Tools | Rapid Prototyping Tools | MIG Welding

EXPERIENCE

Data Science Fellow, General Assembly, Remote   10/2022 - 02/2023
Successfully completing 500+ hours of expert-led, hands-on, instruction in data analytics, data science, and ML.
- **Subreddit Classification** | **NLP - Logistic Regression - Random Forest Classification**
  Classified Reddit comments from r/collapse and r/futurology subreddits with an accuracy score of 88% using NLP vectorization with a logistic regression and hyperparameter tuning.
- **Real Estate Predictions** | **Multivariate Linear Regression - Feature Engineering - Imputation**
  Created a Lasso Linear Regression model to predict real estate prices using a dataset with 80+ qualitative and quantitative features; analyzed the results to look for trends
- **College Prep Exams** | **Data cleaning - Seaborn visualization**
  Cleaned and analyzed SAT score datasets to learn how scores can impact college major decisions

Systems Engineer, VW Group of America, Belmont, CA   08/2018 - 08/2022
Served on a team of systems engineers responsible for configuring units, troubleshooting issues with diagnostic tools, and developing and executing test catalogs for Audi infotainment systems
- On Telematics team, configured/troubleshooted/repaired majority of new units; validated connectivity systems for embedded SIM (eSIM) and found **40% of eSIM test tickets**
- On Human-Machine Interaction (HMI) team, identified poor UI design choices and presented alternatives; validated NHTSA compliance and found **50% of HMI test tickets**
- Brainstormed and ideated sustainable initiatives for a Volkswagen Lighthouse 'Go Green' project, including a Smart Propulsion system that analyzes driving and **optimizes energy efficiency** and a Battery Second-Life program that reuses vehicle batteries in warehouses or chargers.

Visiting Instructor, MIT Global Teaching Labs, Pordenone, Italy   01/2017 - 02/2017
- Led Solidworks curriculum for 25+ high school students; showed how fundamentals apply to real-world design thinking and efficiency; guided them through design problems and finite element analysis

Global Engineering, MIT Student   08/2016 - 01/2017
Developed prototypes for PepsiCo with a small student team for a rapid chiller: a device for vendors in Asia/Africa to chill soda with cost, time, and power-consumption constraints
- Simulated thermodynamic feasibility of a potential device with Matlab.
- Designed 3 experimental systems including a "cold reservoir" that **dropped 30°C in 45s**.
- Led site visit in India to gather market research; presented findings on systems to PepsiCo.

Tesla Inc., Manufacturing Test Intern, Palo Alto, CA   06/2015 - 08/2015
Fabricated new test equipment for installation at Contract Manufacturer (CM) for the Autopilot camera modules
- Designed/built the new mechanical frame with new safety features.
- Analyzed image data to debug camera modules and to optimize the tester, increasing **yield to 97%**.

Jabil Inc., Test Engineering Intern, San Jose, CA   08/2014 - 12/2014
Client's critical subsystem (optical camera, interface, and a PCB) needed rigorous testing. As Test team lead,
- Trained operators on new equipment, while building client trust.
- Carefully documented failure logs and design analysis to help improve yield; rose from 50% to **98%**

EDUCATION

Certificate, Data Science | General Assembly | Remote   10/2022 - 02/2023

Bachelor of Science, Mechanical Engineering | MIT | Cambridge, MA   08/2012 - 05/2017
- Relevant Coursework: Global Engineering, Energy & Materials in Manufacturing, Design for Scale

Relevant Coursework, Mechanical Engineering | SJSU | San Jose, CA   08/2014 - 05/2015