ZHEXU LI

https://hinanawits.github.io/ (+1) 805-618-5607 ZHL411@UCSD.EDU

SUMMARY

After 6 years of rigorous training at UCSD, I have received extensive training and gained practical experience in various aspects of data science, including statistical machine learning, deep learning, cloud computing, data mining, and data visualization. I am thrilled to utilize my skills and expertise to drive innovation and revolutionize industries, paving the way for a brighter future.

EDUCATION

Master of Science: Machine Learning and Data Science, Expected in 06/2023
University of California - San Diego

Bachelor of Science: Data Science, 06/2021
University of California - San Diego

SKILLS

- **Python**
- **SQL**
- **Machine Learning: Scikit-learn**
- **Deep Learning: PyTorch**
- **Data Analysis: Pandas, R, Matlab, Excel, ArcGIS**
- **Cloud Computing: PySpark, Hadoop, AWS**
- **Data Visualization: JavaScript, CSS, HTML, Seaborn, Bokeh**

RESEARCH EXPERIENCE

RESEARCH ASSISTANT 08/2021 to 09/2022
Existential Robotics Lab, La Jolla, CA
Developed ROS Gazebo simulation environment for autonomous driving prototyping. Experimented and intergraded SLAM packages onto several ground robots for autonomous racing. Mentored by Professor Nikolay Atanasov.

ACADEMIC PROJECTS

- **Deep Learning:** Experimented with state-of-the-art deep learning models on various tasks ranging from wildlife classification, artist identification, to image segmentation and art generation. Directly modified model architectures to better fit the task given.
- **Data Mining and Cloud Computing:** Performed parallel data analysis and data mining on large real world datasets using Hadoop, Spark and Dask on AWS EC2 clusters.
- **Interactive Visualization:** Developed a Dash-based indoor airborne COVID – 19 infection risk estimation website under the supervision of Professor Rajesh Gupta. Developed a Flask-based website for real time analyzation and visualization of Airbnb rental trends in NYC.
- **Autonomous Driving:** Implemented Particle Filter SLAM and Visual Inertial SLAM using various sensor readings of autonomous navigation prototypes.