XINBEI ZHU

(+1) 5409981515 | zhuhelen56@gmail.com | LinkedInURL| Personal Website

Areas of expertise include:	
\square Programming in Languages \square Event Management \square Algorithms Application \square Data Analysis	□ Project Management□ Public Speaking and Presentations
Work Experiences	
Inspur Digital R&D Team; Role: Software Developer Intern.	Jinan, China, October 2021 - December 2021
Worked as an intern to learn about natural languages proces	sing and use Bert model for word similarity analysis.
Main Contributions:	
 Scraped data and keywords from the web; cleaned the parameters of the Bert model to improve the accuracy 	,
Chinasoft International Technology Service Role: Data Analyst Intern.	Beijing, China, August 2021 - October 2021
Worked as an intern to understand the specific work and affa Main Contributions:	airs of a data analyst preliminarily.
• Participated in the daily monitoring and analysis of the models and clustering models, and statistic/computing	1 0 1
Publicati	IONS
Dr. Mingqiu Wang, Min Ren, Shengli Zhao, Xinbei Zhu , R Asymmetric Least Squares, <i>Springer</i> , <i>Statistical Papers</i> (202	

Project Experiences

On the Robustness of Facial Privacy Protection Fawkes against AI Denoising Attacks

September 2023 - now

Aim to explore the potential weaknesses of Fawkes under AI denoising attacks

Main Work:

- Prepare the dataset for training by ensuring data quality and consistency.
- Review academic papers to identify state-of-the-art denoising models.

Parcel Damage Classification

January 2023 - May 2023

Set out to solve the problem of identifying damaged packages in hopes that such a system will be implemented in a distribution center to automatically identify and mark damaged packages as they pass through.

Main Work:

- Use Google iCrawler to gather custom image dataset and use python script to remove duplicate images.
- Train a YOLO-based model to identify the damaged packages. Incorporate the YOLO pre-trained model into our labelled dataset to develop a novel classification model.
- Build the front-end for classifying damaged and undamaged packages. Develop the front-end interface for
 package classification utilizing the VGG19 model with a custom top layer, subsequent to a comprehensive
 evaluation of recall rates and performance across multiple models, including ResNet50, YOLOv5,
 VisualBERT, and VGG19.

How to Maximize Customer Value Potential?

Client/Sponsor: Grameenphone - Bangladesh

To reduce customers' churn rate, increase customers' lifetime value and maximize revenue.

Main Work:

- Clean the data using Removing Records Method.
- Use Classification Model and K-means Clustering Model to Analyze and Train the Data. Cluster customers into different groups; figure out the likes and dislikes of groups; decide whether to increase or decrease related services based on these criteria.

EDUCATION AND TECHNICAL PROFICIENCY

Virginia Polytechnic Institute and State University

Master of Science, Computer Science

Started in Fall 2023

August 2022 - December 2022

Virginia Polytechnic Institute and State University

Bachelor of Science, Computer Science

2019 - 2023

Virginia Polytechnic Institute and State University

Bachelor of Science, Computational Modeling and Data Analytics

2019 - 2023

SKILLS AND LANGUAGES

Technical Skills:

Computer Languages: C, Java, Python, R, Latex Applications & Tools:
Microsoft Office(Word, PowerPoint, Excel)

VS Code, Eclipse, Anaconda, RStdio, Git

Languages:

English
Chinese