## XINBEI ZHU

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Areas of expertise include:		
$\square$ Programming in Languages $\square$ Algorithms Application	$\square$ Event Management $\square$ Data Analysis	□ Project Management □ Public Speaking and Presentations
	Work Expe	RIENCES
Inspur Digital R&D Team; Role: Softwar	re Developer Intern.	Jinan, China, October 2021 - December 2021
Worked as an intern to learn about Main Contributions:	nt natural languages proce	ssing and use Bert model for word similarity analysis.
• Scraped data and keywords parameters of the Bert mod	•	e database, and labeled the data. Adjusted the cy of the model.
Chinasoft International Technology Service Role: Data Analyst Intern.		Beijing, China, August 2021 - October 2021
	d the specific work and af	fairs of a data analyst preliminarily.
Main Contributions:		
- · · · · · · · · · · · · · · · · · · ·	Ų.	the data of company's products using classification ng tools like RStudio and Jupyter
	Publicat	TIONS
Dr. Mingqiu Wang, Min Ren, She Asymmetric Least Squares, Sprin	9 ,	Robust Optimal Subsampling Based on Weighted 923).
	Project Exp	PERIENCES

# Assessment for anti-cracking capabilities of the Glaze system

September 2023 - now

Aim to apply state-of-the-art denoising models to the Glaze system to assess its anti-cracking capabilities

#### 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