

Yingjun Lin (Link)

Professional Goal: Computer Science, Machine Learning



PERSONAL

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EDUCATION

Bachelor	Purdue University, West Lafayette	West Lafayette, IN	06/2020 - 12/2023
			GPA: 3.16(3.4 Expected by Graduation)
	• Major in Data Science at the Department of Computer Science		
High School	New Garden Friends School	Greensboro, NC	11/2016 - 05/2020
			GPA: 3.67
	• N/A		

PROFESSIONAL GOAL

Seeking Machine Learning (ML) related majors and topics, especially Computer Vision (CV), with partial passion lying within Data Mining and Data bases. Desiring to deepen my study in the field of CV and math behind model architecture and techniques in general. Desiring to apply power of CV on many occasions like pot-hole detection, autopilot, trash sorting etc. At same time, I am enthusiastic about Data Science, which is my major in undergraduate program. In a world where economics plays a big role, I am interested in applying the knowledge in ML into economics and creating new insight.

MAJOR RELATED COURSES

CS	• Python Programming	STAT	• The Data Mine (I and II)
CS	• Data Science Capstone	STAT	• Data Mine Corporate Partners (I and II)
CS	• Tools (Linux and GitHub)	CS	• Object-Oriented Programming (Java)
CS	• Intro to Analysis of Algorithms	CS	• Data Mining and Machine Learning
CS	• Introduction to Data Science	STAT	• Statistics for Data Science
STAT	• Statistical Theory	STAT	• Probability
CS	• Intro to Cryptography	MA	• Elementary Linear Algebra
CS	• Data Structures and Algorithms	STAT	• Time Series

PROJECTS

Mining Common Patterns for Machine Learning Projects in GitHub	Team Leader	01/2023 - 05/2023
• Using SPMF datamining library and SQL to pull projects from GitHub for analyzing deep learning architectures.		
Yield Prediction for Corn based on Genetics, Soil and Temperature	Team Member	08/2021 - 05/2022
• Using Genotypical & Phenotypical data in combination with location, temperature, soil, and air quality to model yield.		
Enhancing Performance of The Diffusion Model in Generating Images	Individual	05/2023 - 08/2023
• Using Cosine Noiser, Moving Average, and Guided Learning to boosting the diffusion approach in the original paper to make generated image samples more realistic and closer to the original classes.		
Hosting Food Image Classification Models in a Web APP Using Gradio	Individual	05/2023 - 08/2023
• Building a classifier based on Efficient Net training on Food 101 dataset and made it live on Huggingface. Testing several viable solutions such as Visual Transformer, ResNet, and Efficient Net for performance and size.		

ACHIVEMENTS

Science and Technology Contest		
• Honorable Mention in Data Fest by American Statistical Association (ASA)	N/A	04/2023
• Top 5 Entries of Iron Hacks Unemployment Prediction (Indiana Department of Workforce)	First Place	12/2022
• Top 15% of Kaggle Bank Lending Prediction Competition	8 th Place	10/2022
• Top 10 Competitors of Hammer War 2.0 Competitive Programming (Advanced) by Deloitte	7 th Place	09/2022

- Top 5 Competitors of Hammer War 1.0 Competitive Programming (Intermediate) by Deloitte 5th Place 05/2022
- Top 5 Entries of Purdue Hackathon N/A 09/2020
- National Geographical Knowledge Contest by The Geographical Society of China First Place 06/2015

CERTIFICATE

- Python (Basic) Certificate by HackerRank (ID: 41CB2E91319C) 07/2023

SKILLS

Computer: Skilled in Python and PyTorch, proficient in Java and SQL, and familiar with R.

Experience

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|---|--------------------|-------------------|
| • TA for Datamine Seminar (TDM 110) | Purdue Datamine | 08/2022 - 12/2022 |
| • TA for Datamine Seminar Second Year (TDM 210) | Purdue Datamine | 01/2023 - 05/2023 |
| • Intern for Data Analytics and Modelling | Bayer Crop Science | 08/2021 - 04/2022 |

ACTIVITIES

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|---|--------------------|-------------------|
| • Public Relation Officer for Undergrad Chinese Association (UCA) | West Lafayette, IN | 09/2021 - 05/2022 |
| • Volunteer for The Friendly House | Greensboro, NC | 05/2018 - 03/2019 |