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Sungwon Lee

Junior Data Scientist

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Results-oriented Data Scientist specializing in AI and machine learning. I hold a Bachelor's in Statistical Data Science from UC Davis and am currently pursuing a Master's in Applied Data Science at San Jose State University, expected to graduate in May 2025. On the current project, I am trying to embed ViT-YOLO architecture with different architectures such as Transformer detection head to implement on UAV object. I am eager to leverage my expertise to drive data-driven solutions while contributing to team success and enhancing overall performance.

SKILLS

Tools and Languages Git, LTFX, MySQL, Python, R, PyTorch, PySpark, Tableau, TensorFlow

Quantitative Research Machine Learning, Deep Learning, Artificial Intelligence, Computer Vision, Large Language Model, Natural

Language Process, Statistics and Probability

English(Proficient), Korean(Proficient) Communication

TECHNICAL EXPERIENCE

Data Science Teacher's Assistant

Jan 2024 — Present

San Jose State University

San Jose, CA, US

- Led weekly review & demo session, enhancing student understanding of complex mathematical concepts
- Authored lab questions, facilitating hands on learning and reinforcing key concepts
- · Led office hours, providing students with assistance and clarifying their doubts on course materials

Marketing Manager at Silicon Valley IT Business Center

Aug 2022 — Jul 2023

Korea Trade-Investment Promotion Agency

San Jose, CA, US

- Monitored and analyzed semiconductor market trends to identify opportunities for product and service enhancement
- · Al tech industry expert with a strong background in crafting and executing strategic marketing initiatives for IT businesses in Silicon Valley
- Collaborated with global tech leaders and venture capital investors to drive business growth and customer engagement

Data Analyst Intern Apr 2021 — Jul 2021

PMC Corporation Seoul, KR

- · Analyzed and visualized exportation and importation data of the company's chemical products by using SQL, Pandas, and
- Tracked the latest Southeast Asian trading trend and corresponding raw materials' daily market price
- Collaborated with cross-functional teams to provide actionable insights, helping optimize inventory management and supply chain efficiency

PROJECTS

Facial Expression Recognition Analysis

San Jose, CA, US

- Optimized YOLOv7 for Facial Expression Recognition, achieving 95% accuracy and 93% F-1 score
- Enhanced real-time emotion detection using a data balancing technique that merged 12 emotions into four key categories

Leveraging Sentiment Analysis for Enhanced Stock Price Prediction Using PySpark

San Jose State University

San Jose State University

San Jose, CA, US

- Integrated sentiment analysis using PySpark from financial news with traditional indicators for stock prediction, achieving a 6.36% accuracy boost for NVIDIA using the Random Forest model
- Demonstrated model and stock-dependent impact, with sentiment analysis improving results for NVIDIA but showing mixed or negligible effects for Apple and other models

EDUCATION

Master's Degree: Applied Data Science, San José State University

Aug 2023 — Present

Bachelor's Degree in Statistics: Statistical Data Science / Minor in Mathematics, University of California Davis ADsP(Advanced Data Analytics Semi-Professional) Certificate, KOREA Data Agency

Jun 2022 Jun 2021

ACTIVITIES

Board Member

Sep 2018 — Jun 2020

Korean Aggies United

Davis, CA

- Directed and supervised overall operations and coordinated fundraising events for 250 Korean students' alumni connections
- Mentored Freshman Korean students about major courses and academic careers