# Jungeun Hwang

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## EDUCATION

**Purdue University, College of Science**                                          **West Lafayette, IN**
*Bachelor of Science, Data Science & Applied Statistics*                                          **May, 2025**
*Anticipate pursuing a Master's program in Computer Science in Fall 2025*
- Classes: Linux Essentials, Introduction to Artificial Intelligence, Computer Vision with Deep Learning

## PROFESSIONAL EXPERIENCE

**DIAL Ventures**                                          **West Lafayette, IN**
*Data Analyst Intern*                                          **Aug 2023 - Present**
- Automated and streamlined the categorization, storage, and retrieval of 6 base industry sentiment surveys using Qualtrics and MySQL, reducing processing time by 30%
- Designed and implemented a dynamic Tableau dashboard, enabling 300+ agricultural business executives to gain insights into future crop demands across various Agrifood segments
- Authored 5+ blog posts exploring the intersection of computer science and agricultural engineering, emphasizing advancements in precision agriculture, machine learning, and the Internet of Things

**LRNING Lab**                                          **Seoul, South Korea**
*Undergraduate Researcher*                                          **May 2024 – Aug 2024**
- Conducted experiments with transformer models (LUNA, Vanilla) for NLP tasks, including translation datasets
- Optimized model architectures and hyperparameters, improving training loss from 7.29 to 0.24
- Analyzed and documented emerging trends in large language models, focusing on in-context learning and transformer optimization, and hierarchical language structures

**Digital Agriculture Discovery (DAD) Lab**                                          **West Lafayette, IN**
*Summer Undergraduate Research Fellowship (SURF)*                                          **May 2023 – Aug 2024**
- Engineered an interactive AI chatbot for a weed control system that provides farmers with precise and effective treatment instructions
- Fine-tuned a deep learning model (BERT) to interpret farmers' inquiries and route them to the appropriate backend APIs
- Developed a pipeline to extract and embed data from a 500+ page PDF for semantic search, achieving an information retrieval accuracy of 75%

## LEADERSHIP AND INVOLVEMENT

**The Data Mine – Purdue University**                                          **West Lafayette, IN**
*Team Leader*                                          **Aug 2022 – May 2023**
- Led a team of 10 undergraduate researchers in the Radiogenic Isotope Geology Lab using agile methodologies
- Analyzed relationships between filament current and temperature in lead (Pb) and uranium (U) datasets
- Utilized Python for data visualization to track the temporal progression of research findings

**Information Technology at Purdue**                                          **West Lafayette, IN**
*Technology Coordinator & Representative*                                          **Mar 2022 – Jan 2023**
- Supervised computer labs, monitored stations, and restored devices using station status tracking software
- Provided technological support to students and faculty, addressing printing and login authentication issues
- Maintained consistent communication with 100+ head offices and coworkers through Microsoft Teams

**Dcoinstitute**                                          **Seongnam-si, South Korea**
*Coding Expert Tutor*                                          **May 2022 – Aug 2022**
- Instructed 20+ middle school students in Scratch, S4A, and Arduino, fostering foundational programming skills
- Developed and delivered dynamic Python classes in English, tailored to varying skill levels
- Created and organized engaging lesson plans and materials for effective learning

## RELEVANT SKILLS

- Python (TensorFlow, PyTorch, scikit-learn, Flask), R, Java, React Native, MySQL, Tableau, Microsoft Office, Next.js, C, Android Studio, HTML, JavaScript, Typescript