Jungeun Hwang

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EDUCATION

Purdue University, College of Science   **West Lafayette, IN**
Bachelor of Science, Data Science & Applied Statistics   **May, 2025**
- Classes: Problem Solving and Object-Oriented Programming, Data Structures and Algorithms, Linux Essentials, Data Mining and Machine Learning, Introduction to Artificial Intelligence, Computer Vision with Deep Learning

PROFESSIONAL EXPERIENCE

Enlighten Care   **Remote**
Fullstack Engineer Intern   **Jan 2025 - Present**
- Design a conversational AI-powered platform tailored for seniors, emphasizing personalized medical support and adaptive accessibility features

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 MySQL, reducing processing time by 30%
- Designed and implemented a dynamic Tableau dashboard, enabling 300+ business executives to gain insights into future market demands across various Agrifood segments
- Constructed an ETL pipeline using Python libraries and Apache Spark to process large-scale data, enabling near real-time visualizations

LRNING Lab   **Seoul, South Korea**
Undergraduate Researcher   **May 2024 – Aug 2024**
- Conducted experiments with transformer models to enhance machine translation performance
- Optimized model architectures and hyperparameters, improving training loss from 7.29 to 0.24
- Analyzed and documented emerging trends in large language models, in-context learning, transformer optimization, and trustworthy AI

Digital Agriculture Discovery (DAD) Lab   **West Lafayette, IN**
Summer Undergraduate Research Fellowship (SURF)   **May 2023 – Aug 2024**
- Engineered a customized NLP chatbot for a control system that provides farmers with precise and effective treatment instructions
- Fine-tuned a deep learning model (BERT) to categorize text inputs, enabling automated and effective query routing
- Developed a pipeline to extract and embed data from a 500+ page PDF for semantic search, achieving an information retrieval accuracy of 75%

PROJECT

Domain-Adaptive Temporal Modeling for Action Recognition   **West Lafayette, IN**
CS59300CVD: Computer Vision with Deep Learning   **Aug 2024 – Dec 2024**
- Adapted RViT for cross-modality tasks, enabling image training and video prediction for action label inference
- Improved performance with custom adjustments, including refined attention mechanisms and recurrent dropout

LEADERSHIP AND INVOLVEMENT

Purdue Korean Association (PKA)   **West Lafayette, IN**
Full Stack Web Developer   **Jan 2024 – Aug 2024**
- Designed a scalable web app for Purdue students to access career resources, with unique view counts per post
- Built a hybrid SPA using Next.js and Nest.js, with TypeScript for rendering and MySQL for data management
- Engineered relational models in TypeORM and developed RESTful APIs with structured HTTP endpoints

RELEVANT SKILLS

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