

# MINCHAN KIM

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## Education

### University of California San Diego

*Master of Science in Data Science*

Sep 2025 – Jun 2027

La Jolla, CA

### University of California San Diego

*Bachelor of Science in Data Science*

Sep 2022 – Jun 2025

La Jolla, CA

## Relevant Coursework

- Data Mining
- Machine Learning
- NLP
- Database Management
- Deep Learning
- Computer Vision
- Cloud Computing
- Statistics

## Technical Skills

**Languages:** C++, Python, R, Java, Swift, HTML/CSS, JavaScript, SQL

**Libraries & Frameworks:** React, Pandas, NumPy, Scikit-Learn, Pytorch, OpenCV, Dask, Spark, TensorFlow, SciPy

**Technologies & Tools:** Linux/Unix, Git, GitHub, Docker, Kubernetes, AWS, Azure, GCP

## Experience

### Southern California Edison

*Data Science Intern*

Jun 2025 – Sept 2025

Pomona, CA

- Improved hourly electrical grid load forecasting accuracy by reducing MAPE by 20% through statistical feature engineering and XGBoost, utilizing Snowflake SQL data in containerized Python workflows.
- Designed and executed A/B testing with hyperparameter tuning to evaluate classical and time-series ML models, presenting trade-offs and recommendations to engineering teams for circuit planning.
- Developed a Graph Neural Network (GNN) with Pytorch to validate circuit data from unstructured data to help engineers easily pinpoint problematic current and future issues in the grid.
- Customized Hugging Face FLAN-T5 LLM using fine-tuning and prompt engineering to process natural language queries into internal whitelisted Python commands, seamlessly connecting the user to the backend server.
- Designed an all-in-one dashboard prototype in Figma by integrating requirements from disparate BI tools (Power BI, Tableau), streamlining planning and execution workflows.

### UCSD Halicioglu Data Science Institute

*Instructional Assistant*

Mar 2024 – Jun 2025

La Jolla, CA

- Planned and executed the BabyPandas Documentation platform using React JavaScript, improving user experience for over 300 students per quarter by optimizing content organization.
- Led an 8-member team in building a technical documentation site using Git for version control, resulting in improved collaboration and streamlined documentation processes.
- Automated grading feedback using Docker containers and images, enhancing grading efficiency.

### EY

*Data and Analytics Consulting Intern*

Jul 2024 – Sept 2024

Seoul, SK

- Delivered Power BI dashboards for Samsung, using handraiser data to forecast device sales and optimize strategy.
- Assisted in automating data workflows using Azure cloud services and scripting tools to improve pipeline efficiency for forecasting future device sales at Samsung.
- Enhanced global data consistency for Samsung by integrating datasets into Azure Synapse and standardizing schemas.
- Streamlined the conversion of 220+ PowerPoints and PDFs to Confluence Markup using Python, curating data in a vectorized NoSQL database in order to support an LLM chatbot in a Samsung internal team's workflow.

## Projects

### TikTok Cafe Recommender App | Python, GPT-4, OpenCV, Swift

- Scraped 10GB+ of TikTok video, transcript, and comment data using the Apify REST API, storing results in PostgreSQL for sentiment analysis and trend forecasting.
- Used Azure Computer Vision OCR to extract café names and locations from images, automating data collection.
- Applied prompt engineering to a locally deployed Hugging Face transformer model to extract tags and vibe summaries from TikTok video descriptions and comment data for content classification.
- Created Gen Z-oriented Explore, Map, and Detail screens in Figma, and bootstrapped the SwiftUI app using TabView, NavigationStack, and static test data for early UI development.