

Jeonghwan(Daniel) Lee

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EDUCATION AND CERTIFICATION

GEORGIA INSTITUTE OF TECHNOLOGY, Atlanta, GA

Masters of Science

Major: Computer Science

Anticipated Date of Graduation: Dec 2026

UNIVERSITY OF CALIFORNIA, BERKELEY, Berkeley, CA

Bachelor of Arts

Major: Data Science

Date of Graduation: May 2023

GPA: 3.8

SOCIETY OF ACTUARIES

Associate of the Society of Actuaries (ASA)

PROFESSIONAL EXPERIENCE

Blue Shield of California, Oakland, CA

Associate Actuarial Analyst (Small Group Pricing)

Apr 2023~Present

- Identified and resolved errors in the forecast regression model by optimizing data input methods relative to each plan, resulting in a ~\$5M improvement in prediction accuracy and directly impacting ongoing pricing decisions
- Designed and implemented a neural network using PyTorch to classify potential patients for risk adjustment coding, improving the accuracy of identifying high-risk cases and streamlining the previous manual coding process
- Developed and deployed a generalized linear regression model using scikit-learn, leading to data-driven RAF factor optimizations for Non-GI groups and increased organizational revenue by \$356,000
- Initiated the improvement of the efficiency of SAS/SQL data pull code and reduced the overall run-time by 35%

AAA (CSAA), Walnut Creek, CA

Actuarial Intern (Pricing Design)

May 2022~Aug 2022

- Performed competitive analysis on Accident/Violation surcharges utilizing InsurQuote and S&P Rate Filings and suggested multiple rate calculation feature improvements for the upcoming pricing cycle
- Developed GLM with feature selection and regularization that predicted claim frequency with a R squared value of 0.87
- Deployed an automation program that extract base rates from a 100K+ value matrix through recursive backtracking

UBS, San Francisco

Wealth Management Intern

Jun 2021~Dec 2021

- Updated fund averages and compared them to competitive funds using resources such as S&P Global and Bloomberg
- Underwrote periodic Know Your Client Reviews by verifying client information, equity, and source of income

humanID (Cybersecurity Startup), Remote

Sales and Business Development Intern

May 2020~Aug 2020

- Designed and created a CRM/sales tracker that automatically updates values and action items on Google spreadsheets
- Analyzed historical trends of multiple sales reports and forecasted the number of return calls with a 89% precision

PROJECTS

rapGPT 2.0 - eminengpt.com

Dec 2024~May 2025

- Designed and pretrained a 124M-parameter GPT-2-based language model for rap lyric generation using PyTorch, handling dataset extraction, preprocessing, model architecture coding, and optimization.
- Designed and fine-tuned a self-implemented LoRA model for rap lyric generation in the style of Eminem, evaluating model outputs with a BERT-based classifier to ensure stylistic fidelity and content quality
- Integrated KV caching, Flash Attention, model Quantization achieving ~50% reduction in model inference time

Retinal Disease Classifier - https://huggingface.co/spaces/daniellee6925/Retinal_Disease

Jan 2025~Mar 2025

- Created a hierarchical classification computer vision model that classifies diseases based on retinal images with a disease identification recall of 85% and disease classification accuracy of 82%
- Coded Effnet and Vision Transformer models to train models from scratch and evaluated performance with Tensorboard
- Reduced model size with an average inference time of 0.5 sec to deploy model on hugging face spaces using Gradio

Future Claims Predictor (GLM)

May 2024~Nov 2024

- Designed and implemented a generalized linear regression model using scikit-learn to optimize Risk Adjustment Factor (RAF) calculations for Non-GI groups and model was deployed for ongoing rate negotiations
- Developed automated data processor to normalize experience claims data for impact of core trends, trend leveraging, and phase-in to ensure internal data's reliability and accuracy
- Accounted for outliers, specifically large claims, to ensure model accuracy and prevent any distortion in the analysis

SKILLS AND CERTIFICATIONS

Skills: MS Excel/VBA, SAS, SQL, MATLAB, Python, PyTorch