# Minkyung Kim (Leslie)

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## EDUCATION

**University of California, Berkeley** **August 2019 - December 2023**
Degree**: B.A. Data Science (emphasis in Robotics), B.A. Statistics** *Berkeley, CA*
Coursework*: Efficient Algorithms and Intractable Programs, Data Structures, Natural Language Processing, Database Systems, Embedded and Cyber Physical Systems, Modern Statistical Prediction and Machine Learning, Discrete Mathematics and Probability*

## WORK EXPERIENCE

**Claudius Legal Intelligence, Inc.** **July 2022 - August 2022**
*Data Scientist Intern* *Princeton, NJ (remote)*

- Assisted in building mixed-domain language modeling for processing long legal documents as part of the Claudius research team
- Programmed python scripts for data cleaning and preprocessing of law journals as well as data visualization

**UC Berkeley IEEE Student Branch** **August 2020 - May 2021**
*Full-Stack Developer* *Berkeley, CA(remote)*

- Built course website for EE198-2: Micromouse, used by 80 students & instructors each semester
- Deployed and managed server instance for Global Startup Fair website and Discord bot

## PROJECTS

**Emoate** *Full-Stack Developer* **May 2021 - January 2022**

- Developed a website that utilizes four pre-trained CartoonGAN models and TensorFlow to convert digital images into cartoon forms improving model performance and image quality through image masking and nearest neighbor interpolation algorithm
- Designed and built an iOS keyboard extension that supports JPG/GIF images, enabling users to easily add customized images to their messages

**RoboTaxi** *Project Lead* **March 2023 - May 2023**

- Built an autonomous RC car with LiDAR and ultrasonic sensor based obstacle avoidance capabilities and GUI-based manual override over WIFI using TCP/IP
- Implemented real-time GUI visualization for clustered LiDAR point clouds using DBSCAN algorithm with adaptive parameterization achieved through k-nearest neighbors method

**Bird Retrieving Turtlebot** *Project Lead* **August 2022 - December 2022**

- Led development of automated Turtlebot feedback driver that detects line violation and retrieves the bird through Arduino-Computer Vision-Kobuki communication using ultrasonic sensor and Raspberry Pi 3
- Built YOLOv5 CV model by collecting bird video footage data in two different settings and fine-tuning it for long-based and close-range shuttle detection

**Multiclass Text Classification on Legal Contracts** *NLP Analysis* **February 2022 - April 2022**

- Conducted multiclass text classification analysis on the binding nature of legal contracts employing logistic regression, ordinal regression, and BERT model for clause categorization
- Performed data preprocessing, EDA, feature engineering, model training, and model evaluation

**Supervised Classification Model for NFL Game** *Data Scientist* **September 2021 - December 2021**

- Built an outcome classification model for NFL games using Decision Tree Classifier, Random Forest Classifier with CV, and gradient boosting to predict the result of NFL games based on relevant features

## SKILLS

- **Language**: Python, Java, C, SQL, R, JavaScript, Swift (in order of proficiency)
- **Tools**: Django, TensorFlow, Scikit-Learn, OpenCV, Pandas, AWS, React.js, Yolo, MongoDB, Git, Cloud