ANDREW KRIKORIAN

Akrik001@ucr.edu | Linkedin.com/in/andrew-krikorian | Github.com/Andykr1k | Akrik.vercel.app

WORK EXPERIENCE:

Persistent Systems | Software Engineer Intern Jun 2023 to Sep 2023

- Created a SQL query generation GUI and a tool for generating synthetic test data from existing samples using Python
- Utilized the Great Expectations library for robust data validation procedures using their CLI tool
- These tools accelerated testing and allowed for in-depth analysis for executives with an easy-to-use Streamlit GUI

Silicon Valley Bank | Data Science Intern (AI/ML) Jun 2022 to Aug 2022

- Created a prediction model/tool for mortgage business forecasts using Tensorflow and data from SVB's server as well as their MongoDB database
- Built an API using Django to connect the model to a tableau notebook for automated weekly reports reducing on an analysts time from 16-20 hours a week to 0.

RESEARCH:

UCR Research Study | Inorganic Solid State Compound Magnetization Jun 2024 - Dec 2024

Developing a custom ensemble model to estimate magnetization of inorganic solid state compounds.

UCR Research Study | Machine Learning Combinatorial Structures Jan 2023 - Jan 2024

Led a team of programmers studying feed forward neural networks to learn data from algebraic geometry, specifically the wall-chamber decomposition associated with particular spaces parameterizing plane curves and a line.

HACKATHONS:

Skinvue | Skin Lesion Classifier and Tracker | 1st Place **Github.com/Andykr1k/Skinvue**

- Personalized AI-powered application for detecting potentially cancerous moles using image recognition.
- Trained a convolutional neural network to analyze mole characteristics such as dimensions, color, and growth using Tensorflow and utilized Harvard Dataverse MNIST HAM10000 dataset.
- Built a responsive web application to submit images, store results, and track mole changes with React and Tailwind.

RELEVANT PROJECTS:

Picturelock | Social Media + Recommender for Films https://testflight.apple.com/join/Ed1gAjRS

- Developed a social media platform leveraging React Native, NativeWind, Supabase, and Expo.
- Engineered a scalable notification service and recommendation engine, hosted on AWS EC2, utilizing Python, NumPy, Pandas, and WebSockets for real-time interaction.
- Achieved 100% uptime while actively supporting a beta-testing cohort of 100 users.

Pathfinder | Self-Driving Car Github.com/Andykr1k/Pathfinder

- Designed and built an autonomous vehicle using a Raspberry Pi, L298N motor drivers, TT motors, and omnidirectional wheels.
- Developed custom motor control algorithms in C++, coupled with an object detection system powered by OpenCV.
- Optimized decision-making efficiency with a custom data structure in PyTorch, enabling low-latency processing at 1 frame per second.

EDUCATION

University of California, Riverside Aug 2020 to Dec 2024

B.S. in Data Science Specialized in AI/ML
Cum Laude

References

Head of Data Science: Jun Li - jun.li@ucr.edu
CS Professor: Elena Strzheletska - elena.strzheletska@ucr.edu
AI/ML Professor: Vasillis Tsotras - tsotras@cs.ucr.edu

SKILLS:

Languages/Frameworks/Libraries: Tensorflow, PyTorch, Python, Java, Javascript, C++, Go, R, Hadoop, React, Next.js, Streamlit, Django, Flask, TailwindCSS, Redux, SciPy, Numpy, and Pandas
Tools/Databases: Spark, Maven, AWS, Netlify, Vercel, AsterixDB**,** Pinecone, MySQL, Firebase, Supabase, Redis, and MongoDB