SHRISHON KUMARASRI

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https://shrishonk.github.io/

EDUCATION

University of Florida - BS in Computer Science   **April 2027**

- Undergraduate Research Scholars Program and Honors student.
- Pursuing a Bachelor's Degree in Computer Science on a Pre-Medical track.

EXPERIENCE

Tang Lab - Undergraduate Researcher   **May 2024 - Current**

- Imaged PC9 cancer cells to observe the YAP dynamics and how it interacted with currently available therapy drugs.
- Performed data analysis on Atomic Force Microscopy readings
  - Used Python, JPK Force Reader, Numpy, and Pandas
- Developing a camera and projector assembly using hot and cold mirrors

PROJECTS

Skinterest - Lead Developer   **December 2024-Current**

- Created a mobile app using React Expo and Tensorflow
- Utilizes the HAM10000 database to train the model
- Uses the device camera or gallery to take a picture of the user's skin to determine if they have:
- Uses ResNet50 and Data Augmentation
  - Developed using React Expo, Tensorflow, ResNet50, Typescript

NFL Markov Predictor - Developer   **November 2024**

- Created and visualized a Hidden Markov Model using Streamlit and Graphviz
- Implemented a Monte Carlo Simulation
- Implemented a match predictor model for NFL games based on collected home and away NFL game data
  - Developed using Python, Streamlit, Graphviz, Numpy, Pandas

AnnodeSA - Developer   **November 2023 - December 2023**

- Created a sports analytics website hosted with Streamlit
- Collected data from fans on Reddit and Twitter on the NBA, NFL, NHL, and MLB
- Used fan sentiment to determine the deviation of sentiment score to ranking score can be used to predict future performance of a team
  - Developed using Python and visualized using Streamlit
  - Utilized numpy, pandas, scipy, and plotly

SKILLS

- Python
- C++
- HTML5
- React Native
- CSS
- JavaScript
- Typescript
- Object Oriented Programming
- API Keys
- Figma
- R
- Numpy
- Pandas
- Matplotlib
- Tensorflow
- Data Structures and Algorithms
- Hidden Markov Models
- Data Augmentation
- ResNet50
- XGBoost
- Open CV