SACHI PARIKH

San Jose, CA | (669) 212-0707 | parikhsachi@gmail.com

Languages: Python, Java, R, C++ | https://github.com/parikhsachi | https://www.linkedin.com/in/sachi-p-b9b675167/

EDUCATION

Northwestern University, Evanston, Illinois June 2025

B.A. Computer Science and Political Science | Activities: Women in Computing, WNUR 89.3 Radio Show | GPA: 3.89

EXPERIENCE

Software Development Intern @ Amazon (AWS) June-Sept. 2024

- Spearheaded the design and implementation of a **Progressive Web App (PWA)** for **AWS** WorkDocs using **React** and **Typescript**. The PWA is in production and will replace existing WorkDocs applications by Q1 2025.

National Science Foundation Research Fellowship @ NYU Cybersecurity Lab June-Sept. 2022 | June-Sept. 2023

- Built web-scrapers in **Python** to extract data from dark web marketplaces. Applied **Natural Language Processing** techniques using **spaCy** to develop a database of drug trafficking organizations. Collaborated via **Jupyter Notebooks.**

Technical Curriculum Lead @ LingHacks Aug. 2020 – June 2021

- Curriculum team lead for LingHacks—a computational linguistics hackathon. Developed introductory Natural Language Processing content for affiliated LingHacks chapters and helped mentor **Kaggle** hackathons.

Machine Learning Research Intern @ UCSF Sirota Lab June 2020 – Aug. 2020

- Analyzed and pre-processed Alzheimer's Disease RNA-sequenced data in **R** using **Pandas** and **NumPy.**
- Used **Matplotlib** to generate violin plots of the processed data to identify biomarkers of Alzheimer's Disease.

Machine Learning Research Intern @ Stanford PiMED Lab Oct. 2019 – May 2020

- Improved the image pre-processing models on MRI prostate cancer scans using **SimpleITK**, **TensorFlow** and **Keras** in Python. Abstract published in the Biomedical Engineering Society Annual Journal.

PROJECTS

Spotify Sorting Hat, Github

- Developed a full-stack app that retrieves a user's top genres and tracks using the **Spotify API** and **Spotipy** library.
- Used **Django** for the backend and **React** for the frontend, integrating a **REST API** for data retrieval and processing.

Convolutional Neural Network Dogbreed Classifier, Github

- Built a **CNN**-based model in Python to classify dog breeds in images with a test accuracy of over 85%.
- Utilized **transfer learning** by extracting bottleneck features from a pre-trained **ResNet-50** model.
- Fine-tuned the model architecture by adding a Global Average Pooling layer and a final output layer with 133 nodes.

Recurrent Neural Network (RNN) TV Script Generator, Github

- Trained and built an **RNN** on 27 seasons of Simpsons TV scripts to learn language patterns and generate new scripts.
- Utilized **TensorFlow** and Python to implement the model, incorporating **LSTM** cells for sequence generation.

AWARDS + SPEAKING

NCWIT Aspirations in Computing Winner May 2021

National Merit Commended Scholar May 2020

Machine Learning 4 ALL (ML4ALL) Conference Speaker April 2019