SHARANYA SHARMA she/her/hers

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EDUCATION & CERTIFICATIONS

University of California, Santa Barbara Bachelor of Science, Statistics and Data Science (June 2024) - 3.8 GPA
Technology Management Program, UCSB
AWS Cloud Practitioner & SAS Certified (in progress)

Coursework: Probability & Statistics, Data Science Concepts & Analysis,Regression, Machine Learning, Data Structures & Algorithms in Python, Time Series Analysis, Regularization & Optimization, Bayesian Modeling, Stochastic Processes, ETL Pipeline Design, Generative AI/LLM

Google - *Machine Learning Course*, June 2021: Deep Learning with TensorFlow and Pytorch
BayOne Solutions - *Front End BootCamp*, June 2020: MERN stack, UI/UX Design, NLP web scraping
Kotlin Android Development Masterclass, 2022: Data Structures & Object Oriented Programming for mobile app design

TECHNICAL SKILLS

Python, SQL, R, C++, Java, SAS, MATLAB, Kotlin, Pandas, Apache Spark, Hadoop, Kafka, Google Cloud Console, Tableau

EXPERIENCE

Appfolio, Santa Barbara - CA
Capstone at UCSB   Jan 2024 - May 2024
- Developed an LLM for property managers by revolutionizing accessibility to numerous accounting documents
- Implemented Langchain and a self-designed code interpreter for data retrieval using RAG, formulated an evaluation model to test accuracy. Currently adding Reinforcement Learning with Human Feedback (RLHF)

BayOne Solutions, Pleasanton - CA
Product Development Intern   June 2022 - August 2022
- Collaborated with R&D team by using MongoDB from MERN stack to optimize storage allocation of user data
- Enhanced the front end view of product *techscore* version 1 by redesigning the user interface using React/NodeJs

Bishop Ranch Intelligence Innovation Accelerator (BRIIA), San Ramon - CA
Community Development Manager   August 2020 - September 2021
- Launched *Defy The Odds,* a program to help fund 25 women led AI powered companies by December, 2025
- Redesigned BRIIA's Website using HTML, JavaScript, CSS increasing website engagement by approximately 15%
- Managed a digital platform for 60+ entrepreneurs to connect virtually during COVID-19
- Researched the gender disparity in the tech workforce, networked and interviewed influential women CEOs

Chetna Center for Health and Wellness, San Ramon - CA
Website Developer   May 2020 - June 2021
- Redesigned the website user interface and brochure content, increasing patient turnout by 25%

TECHNICAL PROJECTS (2023 - 2024)

Google Developers Solution Challenge - 2ⁿᵈ place at UCSB: Created an android application facilitating electric vehicle owners to rent out their private chargers to those in need during long-distance travel, where access to public charge points is limited.

Spotify Music Recommender System: Implemented low-rank matrix factorization to execute latent factor modeling of song ratings data by developing an optimization algorithm to recommend songs based on user preference. Used L2 regularization techniques to improve prediction. Visualized results using k-means and hierarchical clustering methods.

Election Prediction using Deep Neural Networks: Created a DNN to predict active voter participation rate in the US and election outcome by analyzing public speeches, posts, and articles on electoral candidates from the 2020 election. Model had 85% accuracy.

Stroke Diagnosis Probability Forecast: Prepared data through Extract-Transform-Load (ETL). Employed k-NN, Ridge, and Lasso Regression models to compare prediction accuracies. Investigated Random Forests, XGBoost, & LightGBM for further comparison.

CLUBS & AFFILIATIONS

UCSB Data Science Club, Society of Women Engineers (SWE), Coders SB
NorcalHacks - Operations Team: Organized 3-day hackathon 170+ registrants nationwide