Sumukh Venkatesh

Ph: 669-225-5258   San Francisco Bay Area   sumukh.mails@gmail.com

ABOUT ME

Student interested in the intersection of machine learning, mathematical modeling, optimization, sociology, geography, and public policy.

EXPERIENCE

University of Iowa, Research Intern   JUN 2023 - AUG 2023

Worked on a research project under Professor Weiguo Fan as a part of the selective SSTP (sub-10% acceptance rate) research program. Presented a paper detecting loneliness in social media using natural language processing techniques and providing supportive resources using social media bots at the 2023 MIT-URTC conference.

San Jose State University, Research Intern   APR 2023 - PRESENT

Worked on research projects under Professor Sohail Zaidi. First project focused on using machine learning methods to predict maternal health risk. Presented the paper at the 2023 Springer EHB conference. Second project focused on using machine learning methods to analyze grant distributions after hurricanes. Presented the poster at the 2023 IFoRE Conference by Sigma Xi.

Columbia University, Research Intern   JUN 2022 - JUL 2022

Worked on a research project under Professor Hongseok Namkoong. Wrote a paper on using machine learning techniques to predict and analyze the factors affecting a person's chance of having healthcare coverage. Presented the paper at the 2023 IEEE ICAICA Conference.

Rishi Kumar for Congress, CA-18th District, Manager-in-Training   JAN 2022 - NOV 2022

Managed ~20 student volunteers for Rishi Kumar's campaign. Used precinct-level data & mapmaking skills to help choose areas to focus on canvassing. Was in charge of email outreach for the campaign using YAMM and held weekly meetings for other student canvassers.

NWF Strategies, Online, Intern   JUL 2023 - PRESENT

Working as part of the donor research team on the Joe Thompson for City Council campaign. Concurrently working as part of the team developing a platform that predicts the amount someone will donate for Congressional candidates to use when phone banking using machine learning.

EDUCATION

Evergreen Valley High School, San Jose— High School Diploma   AUG 2020 - PRESENT
13 AP classes - **4.0 GPA**
Member of the Evergreen Valley High School varsity golf team.

San Jose City College, Online— Dual Enrollment   JUN 2021 - JUL 2022
Took Statistics, C/C++ Programming, and Intro to CIS via dual enrollment - **4.0 GPA**

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John Hopkins CTY, Online— Supplementary Coursework   **NOV 2020 - MAY 2022**

AP Chemistry, Multivariable Calculus - **4.0 GPA**

LEADERSHIP & VOLUNTEER

The First Tee, San Jose, CA, Volunteer Coach   **AUG 2021 - PRESENT**

Taught around ~100 underprivileged kids from San Jose the fundamentals of golf, and life lessons relating to it. Volunteered for a total of 112 hours over three years.

Current Horizons, San Jose, CA, Founder and President   **AUG 2023 - PRESENT**

Created resources in the form of a weekly newsletter for teachers to use to teach current. Used by around ~200 students in 3 states. I am working with my AP Government teacher to implement the newsletter with social studies teachers in the district.

EV Speech and Debate Club, San Jose, CA, Captain   **AUG 2022- JUN 2023**

Elected captain of EVHS Speech and Debate Club. Trained ~10 members of the EVHS Lincoln Douglas team, and led weekly meetings for implementing strategy and sharing cards fostering critical thinking & communication skills.

EV History Club, San Jose, CA, President   **AUG 2022- JUN 2023**

Elected president of EVHS History Club. Held regular study sessions for AP US History and AP World History. Went over unique historical topics in our weekly meetings. Created the EVHS History Bowl Team, however this was canceled due to the History Bowl's regional competition's last minute schedule change.

AWARDS & HONORS

- **Silver Medalist** for Team USA at International Geo Olympiad
- **2nd Place/800**, US Geography Olympiad
- **2nd Place/200**, National Political Science Bee
- National Merit Scholarship **Semifinalist**
- AIME (Math Olympiad) Qualifier (Top 10%)
- Science Bee (top 25), Quiz Bowl (top 200), and History Bee (top 25%) National Qualifier
- State Qualifier, National Econ Challenge (Top 5 Teams in NorCal)
- Semifinalist, Climate Science Olympiad (Top 3000/55000 Internationally)

TEST SCORES

- **Standardized Testing:**
  - **1570 SAT** (790 Math, 780 ERWC)
- **AP Exams:**
  - Calculus AB - 5, Calculus BC - 5, World History - 5, US History - 5, Human Geo - 5, Physics 1 - 4, Physics 2 - 5, CS Principles - 5