

ISHAN GONEHAL

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EDUCATION

Martin Luther King High School

- No Class Rank Provided
- Cumulative Unweighted GPA: 3.99/4.00

Riverside, CA
May 2025 (expected)

SKILLS

- **Laboratory:** Plant Growth and Care, Genetic Analysis, Laser Scanning Confocal Microscopy (Image Analysis to Quantify Fluorescence), Scanning Electron Microscopy, PCR Genotyping
- **Skilled Programming:** (Python, MATLAB, C++, Java); Designed several machine learning (ML), computational, and software programs for class, research, and personal use
- **Computer:** Microsoft Office (Word, Excel, PowerPoint, Access); Notion; Internet proficiency; talent for organizing spreadsheet data; skilled at organizing large amounts of data for presentations and group meeting

RESEARCH EXPERIENCE

Research Internship, Riverside, CA

Interdisciplinary Center for Quantitative Modeling in Biology, University of California Riverside Spring 2020 – Spring 2024

- Aided development of ordinary differential equation model on Arabidopsis transcription factor WUSCHEL
- Researched fruit and carpal sizes via in vivo and in silico WUSCHEL mutants to maximize crop production
- Utilized ML to optimize partial differential equation model on Drosophila morphogenic protein DPP
- Experimented with in vivo DPP mutants (ML optimized) to accurately predict tumorigenesis and metastasis
- Authored extensive papers for potential independent publication on WUSCHEL and DPP research

Tentative First Author, Riverside, CA

Independent Cohort Research Under Mentorship, University of California Berkeley

Fall 2024 – Present

- Experimented on AI detection of diction, syntax, and image qualities to identify linguistic and visual phishing indications
- Coded ChatGPT data structure interface to mass experiment with phishing detection prompting methods
- Designed novel few-shot Chain of Thought (CoT) prompting methods to analyze HTML and Image webpage content
- Authoring paper with 4 other independent researchers for potential publication in ACL journal review

First Author, Riverside, CA

Clinical Research w/ Co-Author Dr. Mimi Sen Biswas, Riverside Community Hospital

Spring 2022 – Present

- Had moderate-severe lead poisoning since 2022 from irregularly imported foods
- Conducted clinical case report research to publish findings in the SGIM medical journal (JGIM)

MANAGERIAL EXPERIENCE

Primary Founder and CEO of EcoTeensToday, Riverside, CA

Martin Luther King High School, Home Chapter

Summer 2023 – Present

- Created public editorial website for primary market of teens aged 14-18 who are interested in environmental authorship
- Campaigned civic consciousness, informational projects, and climate literacy programs (more on ecoteens today.org)
- Networked free advisership from former McKinsey consultant and advocacy nonprofit CEO Justice Faith for guidance
- Utilized divisional management (2 co-presidents, 4 VPs oversee editorial, marketing, outreach, and service teams)

Lead Mentor of STEM in Business Manufacturing Camp, Riverside, CA

Stem Summer Camps, High School Education Division, Bourns Inc. and Riverside County

Summer 2024 – Fall 2024

- Hired and managed 10+ college mentors and staff (1-2 mentors assigned to team of 4-6 students)
- Oversaw mentorship of grades 9-12 regarding STEM learning and scientific methods to make novel tech proposals
- Procured CEO of Bourns. Inc, Mr. Gordon Bourns to talk on business in engineering and presentational skills
- Aided in judge selection; directed team scholarship decisions based on final tech proposal presentation

Vice President of DECA Chapter, Riverside, CA

Martin Luther King High School

Fall 2024 – Present

- Procured international recognition via campaigns for membership, promotion, ethical leadership, advocacy, and service
- Leveraged campaign recognition for 6 international leadership academy spots that are awarded to upcoming members
- Establishing relations with neighboring businesses, non-profits, and government organizations to give members internships

PERSONAL

- Worked as paid, in-school, Calculus AB and BC tutor since I am 1 of 3 at my school who completed BC junior year