**Dhyey Dharmendrakumar Mavani**

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**EDUCATION**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Amherst College**|Amherst, MA|*Bachelor of Arts*  **Expected May 2025** ▪ Prospective Majors: Computer Science, Statistics, Economics with 5-College Certificate in Logic

▪ Relevant Coursework: Data Structures (Fall-2021), Data Science (Fall-2021), Introduction to Economics (Fall-2021)

**Stanford University**| Stanford, CA | *Pre-Collegiate University-Level Online Math & Physics* **March 2018–Dec 2019**

▪ University Credits Received for:Multivariable Calculus, Intermediate Mechanics I, Light and Heat

**P. P. Savani Cambridge International School**, Surat, Gujarat, India|*Cambridge IGCSE and A-levels* **May 2017–March 2021**

▪ A-levels:Mathematics: A\*| Further Mathematics: A\*| Physics: A\*| Chemistry: A\*| Thinking Skills: A|IGCSE Computer Science: A

▪ SAT Subject Tests:Math Level 2: 800/800 | Physics: 800/800 | Chemistry: 800/800 | Biology: 790/800 ▪ AP (Advance Placement) by self-studying: Calculus BC: 5/5 | Calculus AB: 5/5 | Physics C Mechanics: 5/5 | Physics C E&M: 5/5 | Physics 1: 5/5 | Physics 2: 5/5 | Chemistry: 5/5| Statistics: 4/5 | Biology: 4/5 | **AP Scholar with Distinction Award** 2019, 2018 ▪ **Outstanding Cambridge Learner High Achievement Award in IGCSE Additional Mathematics** with 100 percentile

**RELEVANT CERTIFIED ONLINE COURSEWORK**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Google Career Certificates Professional Specializations:** Data Analytics (completed) and Project Management (in progress).

**IBM Developers Skills Network Professional Specializations with Capstone Projects:** Data Science and Applied Artificial Intelligence

**Stanford University:** Divide and Conquer, Sorting and Searching, and Randomized Algorithms, Introduction to Logic, Introduction to Mathematical Thinking, AI for Everyone

**Massachusetts Institute of Technology:** Introduction to Computer Science with Python, Launching Innovation in Schools, Quantum Mechanics: A First Course, Vibrations and Waves, Qualitative Research Methods: Conversational Interviewing **Harvard University:** CS50x Introduction to Computer Science

**WORK AND LEADERSHIP EXPERIENCE**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Code Club by Raspberry Pi Foundation**, Surat, India | *Founder, Leader, and Projects Manager* **April 2019–May 2021**

▪Expanded knowledge through training from Raspberry Pi Foundation, UK to ensure up-to-date teaching and learning resources

▪Taught fifty-seven 9-13 year-olds Scratch, Python, Java, and C++ allowing them to make animations and projects

**Greenpeace International,** *Remote* | *Founder and Project Manager: GP Pollution Project, West-zone leader* **June 2020–Nov 2020** ▪ Proposed and led a project with the motto of analyzing air pollution data pre/during/post-COVID-19 to propose policies by creating a website and managing operations for a team of 30people, ranging from tech to humanities, in **Google Workspace**

**Renewable Energy Department JAU**, Junagadh, India | *Computational and Data Research Scholar*

**Beauty of Agrivoltaic Systems: Double Utilization of Land for Crop and Electricity Production May 2019–June 2019**

▪ Implemented PV panels on the fertile land while sustaining crop production to generate electricity creating additional income

▪ Gauged, both statistically and econometrically, 20 factors individually and in tandem, while exploring various patterns of placing panels in search of the most efficient method; became **Genius Olympiad Finalist-2020**

**Development of Temperature Prediction models of Naturally ventilated Greenhouses April 2018–May 2018**

▪ Developed mathematical models using FORTRAN for implementation of the energy balance equations to compare predicted and measured data, which proved to be a great help to farmers in terms of greenhouse efficiency.

**Janani Dham: The Abode of Motherhood for homeless HIV+ girls**, Surat, India | *Tutor & Mentor* **May 2018–March 2021**

▪ Encouraged creativity and critical thinking in 58 girls, who are dispossessed by society because of their HIV-positive status by group sessions in mathematical and critical logic.

▪ Explained life, ethics, and life skills to participants, as these are the most neglected topics in the school system

▪ Created graphical/symbolic representations as well as translated resources into Gujarati to remove academic language barriers

**HONORS & AWARDS**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

▪ **Pramerica Spirit Of Community Awards 2021** *for 4-years of consistent & long-standing commitment to community service*

▪ **Emerging Scientist Award 2020** *for interdisciplinary research contributions as first-author during high-school*

▪ **International Best Oral Presentation Award** *in open category as an only high-school student in ISC-2019*

▪ **World Topper and Champion Award** *in Asian International Mathematics Olympiad (AIMO-2020)*

▪ **1st Runner-up globally** *in World International Mathematics Olympiad (WIMO-2020)*

**SKILLS & INTERESTS**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

▪ **Language Skills:** English (native), Hindi (native), Gujarati (native), Sanskrit (proficient)

▪ **Coding Languages:** Python, Java, HTML/CSS, R, SQL, JavaScript, C, Scratch, Flask, FORTRAN, Django.

▪ **Additional Technical Skills:**  Mathematica, MATLAB, Kaggle, Google Suite, Git, Microsoft Office Suite, Adobe Premiere Pro, Slack

▪ **Interests:** Quantitative Trading, Badminton, Archery, Outing, Hiking, Meditation.