

Yash Dagade

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EDUCATION

Duke University <i>B.S. in Mechanical Engineering, Computer Science; Full-ride + \$40,000 Merit-based Scholarship</i> <ul style="list-style-type: none">Relevant Coursework: Deep Learning, Real Analysis	Durham, NC 2024 – 2028
University of Minnesota, Twin Cities <i>Dual Enrolled — 48 Credits — 3.9 GPA</i> <ul style="list-style-type: none">Relevant Coursework: Artificial Intelligence I, Machine Learning Fundamentals	Minneapolis, MN 2022 – 2024
Eden Prairie High School <i>60 Credits — 3.9 GPA</i>	Eden Prairie, MN 2020 – 2024

EXPERIENCE

Researcher at PPP Lab <i>Launched and led the SkyWindFarm project; obtained \$30,000 in grants; provisional patent submitted.</i>	University of Minnesota 2022 – 2023
Founder and President of EyeDa <i>Led a team creating AI solutions for distracted driving; recognized on ABC, NBC, and Star Tribune.</i>	Self-founded 2021 – 2023
Research Volunteer at Flow Field Imaging Lab <i>Increased wind turbine efficiency by 1.5%; submitted first author manuscript in top energy journal.</i>	University of Minnesota 2023

PUBLICATIONS & PATENTS

Patent: Passive Alignment LTA Shell for VAWTs <i>Developed an LTA shell enhancing VAWT cluster efficiency; 25% reduction in AWE system energy costs.</i>	Provisional Patent 2023
Aerodynamic Performance Analysis of a Three-Bladed Vertical Axis Wind Turbine <i>Lecture Notes in Mechanical Engineering</i> <i>Accepted for CDPMHM 2024.</i>	2024
SkyWindFarm-Harnessing High Altitude Wind Power in a Scalable Way <i>Manuscript submitted: RENE-D-23-06538.</i>	Renewable Energy 2023
Optimizing Wind Turbine Performance in the Presence of Low-Level Jets <i>Manuscript submitted: APEN-D-23-03934.</i>	Applied Energy 2023

PROJECTS

EyeDa Maps <ul style="list-style-type: none">Created AI-powered navigation tools to predict safer routes using accident data.Demo presented to MN Senator; nominee for Emerging Leaders Award at TZD conference.	Self-initiated
Polycythemia Vera Research <ul style="list-style-type: none">Discovered two new therapeutic genes (RUX1 and CBFB) that could inhibit the Jak2v617f mutation, treating Polycythemia Vera (PV).Ongoing collaboration with Dr. Beckmen at UMN to find potential drugs targeting these genes; currently conducting mouse trials.	Chad L Myers Lab, UMN

HONORS & AWARDS

A.B. Duke Scholarship <i>Full-ride merit-based scholarship; 6-week study at Oxford University.</i>	Duke University May 2024
International Science and Engineering Fair <i>3rd Place Grand Award in 2023 and 2024; \$10,000 Sustainability Special Award.</i>	ISEF Dallas and LA May 2023, 2024
Regeneron Science Talent Search Scholar <i>Selected from 2,162 applications for exceptional research skills.</i>	Nationwide Jan 2024
National Merit Finalist <i>Top 0.5% of PSAT performance.</i>	Nationwide Dec 2023