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Atlas IntelliTek

Winter 2026

Founders

Ackshaya Varshini Koundinya Swaminathen

Profile complete

[^](#)

Basics

Name

Ackshaya Varshini Koundinya Swaminathen

Email

admin@atlasintellitek.com

Phone Number

+16146342560

Age

25

Gender

Female

City where you currently live

Tempe

Role

What is your title, or if you haven't set it yet, main responsibility?

Co Founder

What percent equity do you have?

64

Do you have at least 10% equity in the company you're applying with?

yes

Are you a technical founder?

yes

Are you currently in school?

yes

Will you have graduated by the time the batch starts?

yes

If accepted to YC, will you commit to working exclusively on this project for the next year?

yes

Background

Your LinkedIn URL

<https://www.linkedin.com/in/ackshaya>

Education

Vellore Institute of Technology

Btech, Mechanical Engineering

Jan 2025 - Dec 2026

Arizona State University

Jan 2025 - Dec 2026

MS, Mechanical Engineering

Aug 2022 - Dec 2024

The Ohio State University

Aug 2022 - Dec 2024

MS, Mechanical Engineering

Work Experience

Dec 2022 - Apr 2023

Department of Mechanical and Aerospace Engineering at The Ohio State University -

Graduate Teaching Assistant

Dec 2022 - Apr 2023

Worked as a Graduate teaching assistant. Delivered sensor selection, data acquisition, signal conditioning, and statistical analysis using LabVIEW and

Matlab.

Jul 2021 - Sep 2021

Indian Institute of Technology, Indore - Research Internship

Jul 2021 - Sep 2021

Jul 2021 - Apr 2022

Siemens Healthineers - Mechanical Design Engineer - Innovation Think Tank Fellowship

Jul 2021 - Apr 2022

- Developed optimized designs for Siemens Healthineers' ARTIS Pheno, C-Arm machine, creating a compact system with enhanced degrees of freedom to fit smaller medical spaces.
- Reverse engineered detailed modelling of the existing machine using SketchUp and NX-CAD. Strength and mechanical analysis were performed using Ansys and SIMCenter.
- Prototyped a miniaturized, mechanically functional 3D model using advanced additive manufacturing techniques.

Apr 2021 - Jun 2021

IIT Ropar - Research And Development Intern - IIT Ropar

Apr 2021 - Jun 2021

Jul 2020 - May 2022

AVKS Designs - Founder

Jul 2020 - May 2022

- Website: <https://avks-designs-t1mu1vj.gamma.site>. Designed and modeled precision components and assemblies using advanced CAD software, tailored to meet specific customer requirements.
- Enhanced design accuracy using Solidworks, Creo, Fusion 360, and Catia. Performed complex simulations under a variety of conditions using Ansys, LS-DYNA, and Matlab to ensure optimal performance and feasibility.
- Manufactured custom made parts to solve existing problems in production facilities increasing production rate by 25%.

Social Media

Accomplishments

Please tell us about a time you most successfully hacked some (non-computer) system to your advantage.

I hacked a hospital OR, not a computer. At Siemens Healthineers, I solved the "impossible" problem of fitting a scanning equipment called ARTIS Pheno. The robot was too big for existing ORs, so I re-engineered it. I designed a new base with a rotating dock and a telescopic arm, allowing full clinical motion without blocking staff. I validated the design with CAD/FEA and 3D-printed a mini working model to get instant buy-in from clinicians. The final concept was 35% shorter but had a 25% larger C-arm than the existing equipment

making it way better than the original design, saving hospitals from costly construction. I fit the machine to the room, not the room to the machine.

Please tell us in one or two sentences about the most impressive thing other than this startup that you have built or achieved.

During the pandemic I built an IoT-based auto-disinfectant sprinkler. It mounts to a ceiling, rotates 360° and can be controlled from a web interface. The system ensured full-room coverage at a time when manual sanitization was risky, and the design was published as a paper at VIT.

Tell us about things you've built before. For example apps you've built, websites, open source contributions. Include URLs if possible.

VentraFlow (AI-CFD pipeline, in the making) – an end-to-end tool that ingests CAD files, automatically cleans and meshes them, sets up RANS solvers and produces CFD (Computational Fluid Dynamics) dashboards. ValveOps – a web-based hydraulic-network tool that loads water network (EPANET) models, runs simulations and uses an Reinforcement learning agent to adjust valve/pump settings; it provides a live dashboard and exports schedules. Kavach AI (in the making) – a hackathon-built fraud-prevention prototype; it uses streaming backends and LLMs to classify UPI (Indian transaction methodology)or SMS events and flag suspicious transactions Link: (<https://kavach-ai-demo-atlas-intellitek.figma.site> ; <https://www.youtube.com/watch?v=N6-JTa7QZtE>) IoT Auto-Sprinkler – the ceiling-mounted disinfectant system described above. Link: (https://link.springer.com/chapter/10.1007/978-981-16-6448-9_44) 5-DOF robotic manipulator – designed and 3D-printed an electromechanical robot with sensor-integrated kinematics and FEA-validated robustness. Finite-element corrosion model – developed a Matlab/Python model to visualize pitting corrosion propagation using coupled electrochemical and phase-field methods.

List any competitions/awards you have won, or papers you've published.

Mumbai Hacks 2025 Finalist (Project: Kavach AI): Secured a place in the top 500-team cohort from across India to compete in the final event on November 28, 2025. IIT Ropar - iHUB Awadh 2021 Research design competition: Developed a smart hydroponic system that used IoT sensors to monitor and control critical growth factors like temperature, water level, and aeration. Research Publications: Published research paper titled 'Numerical simulation on the effects of ambient velocity and temperature on solar panel efficiency' in the IOP EES Conference series 2021. (<https://iopscience.iop.org/article/10.1088/1755-1315/850/1/012030>) Published research paper titled 'Concept design and numerical analysis of hybrid solar–wind turbine' in the IOP EES Conference series 2021. (<https://iopscience.iop.org/article/10.1088/1755-1315/850/1/012032>) Published research paper titled 'Concept Design and Analysis of Self Sustainable Triboelectric Pacemaker' in the IOP Conference series: Journal of Physics 2021.

(<https://iopscience.iop.org/article/10.1088/1742-6596/2115/1/012050>) Published research paper titled 'IoT-Based Auto-Disinfectant Sprinkler System for Large Enclosed Space' for the Springer Proceedings: Lecture Notes in Electrical Engineering 2021.

(https://link.springer.com/chapter/10.1007/978-981-16-6448-9_44) Published research paper titled 'Implementation of Pupil Dilation in AI based Emotion recognition' for the Springer Proceedings: Lecture Notes in Electrical Engineering 2021.

(https://link.springer.com/chapter/10.1007/978-981-16-6448-9_45) Top-10 team in Dassault Systèmes Aakruti 2020 – selected from over 4,900 participants across 330 colleges all across India

List any relevant or impressive test scores.

I have expert-level proficiency in advanced CAD and simulation, validated by my Certified Solidworks Expert (CSWE) and 3DEXPERIENCE 3D Innovator certifications from Dassault Systèmes.

List any entrepreneurship programs, clubs, or hacker houses you have participated in or are currently participating in.

I'm an active member of TiE Phoenix, where I've networked with founders and first learned about YC. I am competing in Mumbai Hacks 2025 (building Kavach AI). During my masters I also joined maker spaces and robotics clubs, and volunteered with Women in Engineering groups to mentor younger students.

Hari Dharshini Koundinya Swaminathan

 Profile complete



Basics

Name

Hari Dharshini Koundinya Swaminathan

Email

haridharshiniks@gmail.com

Phone Number

+17737174673

Age

23

Gender

Female

City where you currently live

Chicago

Role

What is your title, or if you haven't set it yet, main responsibility?

Co-founder

What percent equity do you have?

36

Do you have at least 10% equity in the company you're applying with?

yes

Are you a technical founder?

no

Are you currently in school?

yes

Will you have graduated by the time the batch starts?

yes

If accepted to YC, will you commit to working exclusively on this project for the next year?

yes

Background

Your LinkedIn URL

<https://www.linkedin.com/in/hari-dharshini/>

Education

Sep 2024 - May 2026

Harris School of Public Policy at the University of Chicago

Sep 2024 - May 2026

MA, Public Policy

Aug 2020 - May 2024

Shiv Nadar University

Aug 2020 - May 2024

BA, Economics And Finance

Jan 2016 - Jan 2020

The Hindu Senior Secondary School

Jan 2016 - Jan 2020

Secondary, Higher Secondary Education

Work Experience

Sep 2025 - Present

Harris School of Public Policy - Teaching Assistant

Sep 2025 - Present

Selected to support instruction in Analytical Politics I: Strategic Foundations

Sep 2025 - Present

University of Chicago - Public Policy College - Teaching Assistant

Sep 2025 - Present

Selected to support instruction in the 'Regulation of Vice' course

Jun 2025 - Aug 2025

Illinois Department of Labor - Fair Labor Standards Intern

Jun 2025 - Aug 2025

- Spearheaded preparation for the rollout of a new case management system by aligning feedback across 4 subdivisions and coordinating with 15+ stakeholders to automate repetitive tasks and improve cross-department collaboration.
- Partnered with the Intake Manager to accelerate processing of 500+ cases, targeting a one-month reduction in backlog timelines and improving responsiveness to claimants.
- Verified and summarized 300–400 wage claim cases by reconciling payment records, preparing briefs for management, and flagging missing payments to Legal Counsel for escalation to the Attorney General's office.

Nov 2024 - Feb 2025

Harris Community Action (HCA) - Fellow

Nov 2024 - Feb 2025

United States * Combined 3 Excel files (2016-present) into a single tracker to enable baseline analysis and identification of key program trends *

Redesigned 5 Airtable forms to standardize input and improve data quality, aimed at reducing incomplete entries by ~50% *

Created a structured migration plan to Airtable for real-time tracking, improving accessibility and long-term data usability

Jan 2024 - Jul 2024

Bain & Company - Intern - Analyst

Jan 2024 - Jul 2024

- Conducted financial modeling and valuation analysis across 20+ companies to support investment decisions and risk assessment.
- Analyzed market/regulatory data in Excel, linking findings to risk, returns, and investment theses, synthesizing into client decks.
- Supported case teams with data processing, quality checks, and documentation to ensure replicability of financial models and exhibits for senior decision-makers.

Feb 2023 - Dec 2023

Shiv Nadar University Student Council - Senator

Feb 2023 - Dec 2023

Greater Noida Represented student interests to the Student Council, proactively addressing and resolving peer concerns to enhance the overall academic and campus experience. Facilitated effective communication

between students and faculty, ensuring timely dissemination of key announcements and resolving coursework and grading issues to maintain transparency and trust.

Jun 2022 - Jul 2022

Guidance Tamil Nadu - Policy Research Intern

Jun 2022 - Jul 2022

Tamil Nadu, India * Analyzed business R&D expenses of OECD member nations to identify spending patterns and trends, providing actionable insights for policy comparisons. * Researched strategies followed by OECD members that could be adopted by the Indian government to improve efficiency, offering policy recommendations for better governance and innovation. * Gained proficiency in data analysis using Excel to create rough profiles on ten countries, enhancing the project's ability to present clear, data-driven insights.

Sep 2020 - Mar 2023

The Economics Society, Shiv Nadar University - Treasurer

Sep 2020 - Mar 2023

Developed and secured approval for event budgets, ensuring optimal allocation of funds and seamless execution. Planned and managed resource requirements for upcoming events, preventing shortages and enhancing operational readiness. Advocated society needs to the Head of Department, obtaining timely approvals and institutional support for initiatives. Directed end-to-end event execution as a core committee member, driving efficiency and delivering high-impact outcomes.

Social Media

Accomplishments

Please tell us about a time you most successfully hacked some (non-computer) system to your advantage.

As the first-ever eco-finance class, we felt like lab rats due to constant administrative, logistical and scheduling problems for four years. By the time we got to our last core course, the mess peaked: six-hour lectures, skipped weeks, and grades so off that a 90% meant a B. I tried to fix it as the Class Representative, but our professor wouldn't respond, and the Department Heads kept brushing me off. So I did something different. I gathered my classmates, wrote down every issue we'd faced as the guinea pig batch, and emailed that report straight to the Vice Chancellor, with the department heads copied. That got their attention. I was called in, reset the grading scale in consensus with the rest of the class, and the school fixed its processes for the next batches. By refusing to accept a broken system and taking the problem to someone who could force the department heads to act, I turned a bad situation into a win for everyone.

Please tell us in one or two sentences about the most impressive thing other than this startup that you have built or achieved.

Revived a seven-year-defunct college fest and turned it into a campus-wide success. After seven years of silence, I helped revive Iqtisaddiyat, the flagship three-day festival of the Economics Society at Shiv Nadar University. As treasurer, I managed the budget, secured extra departmental funds, worked with 10 sponsors, and helped set ticket prices to keep it both affordable and profitable. We attracted strong participation, about 150 students, by bringing in Kiran Bedi as our keynote speaker, which became the event's main draw. The success of that first revival set the tone for future editions; each new batch has since built on it, making Iqtisaddiyat even bigger every year.

Tell us about things you've built before. For example apps you've built, websites, open source contributions. Include URLs if possible.

I built a working data-management system for a Chicago non-profit. As a Harris Community Action Fellow, I found their participant data scattered across inconsistent Wufoo forms from 2016 to 2024. I rebuilt their data flow end-to-end, standardized forms, made key fields mandatory, and created a centralized Airtable tracker with automations for email follow-ups and dashboards for visualizing impact. After presenting it to the CEO and ops head, they adopted it as their core data system, which now runs their outreach and reporting.

List any competitions/awards you have won, or papers you've published.

Cleared IRM Level 1 and Level 2 certifications (Institute of Risk Management, UK), demonstrating advanced understanding of quantitative and enterprise risk frameworks.

List any relevant or impressive test scores.

UChicago MPP GPA: 3.72 / 4.00

List any entrepreneurship programs, clubs, or hacker houses you have participated in or are currently participating in.

Currently developing and pitching a startup idea as part of Booth's New Venture Strategy course. Also organised a Public Finance panel and networking event with Stifel through the Harris Public Finance Association to expand industry engagement.

How long have the founders known one another and how did you meet? Have any of the founders not met in person?

We're sisters co-founding Atlas IntelliTek with a clear tech-business split. Ackshaya (elder) is our lead engineer, building the core product and AI. Hari Dharshini (younger) manages the business side, from daily operations to long-term strategy. Our unique advantage as siblings is a direct, ego-free dynamic that lets us make fast, definitive decisions. We are fully committed and have the exact blend of technical and business execution needed to build this.

Who writes code, or does other technical work on your product? Was any of it done by a

non-founder? Please explain.

All the code is written by me, Ackshaya Varshini. I handle the entire tech stack, backend (Python, FastAPI, LangChain, PostgreSQL) and frontend (React, TypeScript). No part of Astra has been outsourced; everything so far is founder-built. My co-founder, Hari Dharshini, leads finance, product strategy, and customer research.

Founder Video



⚠ We're aware of an issue with uploading video on mobile devices. We highly recommend using a desktop or laptop to finish your application.

Company

Company name

Atlas IntelliTek

Describe what your company does in 50 characters or less.

Agentic AI company building autonomous systems

Company URL, if any

<https://www.atlasintellitek.com>

Demo Video



⚠ We're aware of an issue with uploading video on mobile devices. We highly recommend using a desktop or laptop to finish your application.

Please provide a link to the product, if any.

<https://astra-erp-crm.figma.site>

demo@astra.ai / demo1234

What is your company going to make? Please describe your product and what it does or will do.

Atlas IntelliTek is building Astra, an AI-powered ERP-CRM that sets itself up automatically for any business. It connects to tools like Slack and QuickBooks, learns how the company works, and creates the needed modules for CRM, finance, HR, and operations. Astra gives one simple Copilot interface to manage everything faster, with fewer errors and no manual setup. Where do you live now, and where would the company be based after YC?

Tempe, USA / San Francisco, USA.

Explain your decision regarding location.

San Francisco offers the best access to AI talent, investors, and early adopters. We want to be close to the ecosystem that can help Atlas IntelliTek grow faster.

Progress

How far along are you?

We've finished Astra's frontend and started backend development. We've shown demos to

L&T, Avant-Garde, and Watflow, who are interested in pilot trials once the MVP is ready. How long have each of you been working on this? How much of that has been full-time? Please explain.

We've been working on Astra for about 2 months, part-time. So far, we've completed the design, frontend, and early backend setup, along with market research, lead generation, and outreach to potential pilot partners.

What tech stack are you using, or planning to use, to build this product? Include AI models and AI coding tools you use.

We're using Python (FastAPI) for the backend and React + TypeScript for the frontend. AI is powered by GPT-4/Claude via LangChain, with PostgreSQL for data, and integrations through OAuth and API connectors. Everything runs in containerized services on cloud or on-prem setups.

Are people using your product?

No

When will you have a version people can use?

We plan to release the first usable version of Astra within 5–6 months, starting with pilot deployments for L&T, Avant-Garde, and Watflow.

Do you have revenue?

no

If you are applying with the same idea as a previous batch, did anything change? If you applied with a different idea, why did you pivot and what did you learn from the last idea?

Unanswered

If you have already participated or committed to participate in an incubator, "accelerator" or "pre-accelerator" program, please tell us about it.

Unanswered

Idea

Why did you pick this idea to work on? Do you have domain expertise in this area? How do you know people need what you're making?

While working with Mody Pumps, I saw how hard it was to build ERP-CRM workflows that truly fit their business, existing systems were rigid, disconnected, and couldn't link operations, finance, and logistics. That's when the idea for Astra was born, an AI-driven system that learns how a company works and sets itself up to make every part talk to each other seamlessly. After speaking with companies like L&T, Avant-Garde, and Watflow, it's clear that businesses want an AI system that sets itself up and saves them time.

Who are your competitors? What do you understand about your business that they don't?

Our competitors, SAP, Oracle, Salesforce, Microsoft Dynamics, Zoho, and Odoo, focus on selling to companies, not the people who actually use their systems. Their tools are rigid,

hard to set up, and painful for employees to adopt. Astra flips that. We design for the workers first, our AI learns how they already operate, connects their existing tools, and builds a unified system around them with near-zero transition cost. Others build software for management; we build it for the people who make the company run.

How do or will you make money? How much could you make?

We'll generate revenue through SaaS subscriptions, starting with a base workspace fee plus per-seat pricing, along with usage tiers for automation volume and premium connectors. For larger clients, we'll offer enterprise plans with VPC or on-prem deployment, SSO/Role-Based Access Control, audit features, and priority SLAs. We start with early deployments, then land-and-expand across modules (CRM, finance, ops). Given CRM/ERP spend, Astra can reach meaningful mid-market Annual Contract Values and enterprise deals. Our edge: near-zero transition cost drives faster adoption and larger contracts.

Which category best applies to your company?

B2B SaaS

If you had any other ideas you considered applying with, please list them. One may be something we've been waiting for. Often when we fund people it's to do something they list here and not in the main application.

VentraFlow (AI + CFD) (Ongoing) Turn 3D models into validated airflow results in hours, not weeks. VentraFlow is fully automated airflow simulation (CFD) built for building engineers. It automatically reads your 3D models (Revit, IFC), then cleans, meshes, and runs the entire simulation for you. No expensive licenses or manual "solver babysitting" are required. It uses AI to ensure the simulation works, delivering simple dashboards on comfort, air pressure, and air change rates. Teams can instantly test "what-if" HVAC changes. It's not just simpler CFD; it's CFD that finally speaks the language of MEP and facilities. Kavach AI (Ongoing) Catch payment fraud the moment it happens. Kavach AI is smart, real-time fraud defense that understands context. It instantly streams your UPI, SMS, or app transactions and uses AI to spot risky patterns that simple rules miss. It's built for immediate use with easy webhooks, a clear dashboard for human-in-the-loop review, and full audit trails for compliance. This isn't just a filter, it's a defense system that learns your unique transaction patterns and gets sharper with every use.

Equity

Have you formed ANY legal entity yet?

yes

Please list all legal entities you have and in what state or country each was formed (e.g. Delaware C Corp, Mexican SAPI, Singapore Pvt Ltd, etc.).

ATLAS INTELLITEK LLC 15722 FIRTHRIDGE CT WEBSTER, TX 77598

Please describe the breakdown of the equity ownership in percentages among the founders,

employees and any other stockholders. If there are multiple founders, be sure to give the equity ownership of each founder and founder title (e.g. CEO).

Founders own 100% (no employees or other stockholders yet). Ackshaya Varshini: 64% - Co Founder Hari Dharshini: 36% - Co Founder

Have you taken any investment yet?

no

Are you currently fundraising?

yes

Please provide any relevant details about your current fundraise.

Unanswered

Curious

What convinced you to apply to Y Combinator? Did someone encourage you to apply? Have you been to any YC events?

We're applying to YC because we're an early-stage, bootstrapped startup that would benefit deeply from the mentorship, funding, and network YC offers. We've seen how YC shapes world-class founders and companies, and we want to learn from that ecosystem while building Astra into something truly impactful. Astra has the potential to change how every company runs its operations, and YC is the best place to build something that bold.

How did you hear about Y Combinator?

I heard about YC through other founders I met at TiE Phoenix. Their experiences showed me how YC helps early startups grow fast with the right guidance and network.

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