

DHRUV SAXENA

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EDUCATION

Akshara Junior College

Hyderabad, India

Senior Secondary (Class XII) - Telangana Board of Intermediate Education | Expected Graduation: 2027

Academic Record: Class XII (Predicted): 97% | Class XI: 91% | Class X: 94%

Standardized Testing: SAT: 1440 (Math: 780, EBRW: 660)

Coursework & Languages: Advanced studies in Mathematics, Physics, Chemistry; French (Class X & XII).

INDEPENDENT PROJECTS & RESEARCH (FINANCE & DATA SCIENCE)

Equity Risk Analysis Tool

Independent Developer | Mar 2026 - Present

- Built an initial Python script using standard deviation to calculate 30-day price swings, creating a straightforward way to flag whether a stock was genuinely steady or just riding hype.
- Upgraded the model to calculate Beta, pulling exchange data to measure how strongly an individual stock reacted to swings in the broader market rather than just looking at it in isolation.
- Developing an added feature (v2.0 WIP) that scans daily financial headlines for sentiment, testing whether pairing news tone with Beta calculations provides a more complete view of risk.
- Published the complete codebase and documentation on GitHub to demonstrate open-source contribution and technical transparency.

Behavioural Finance Research: The Architecture of Impulse

Independent Researcher | Feb 2026

- Conducted primary research on "dark patterns" in e-commerce applications, specifically analysing the psychological and financial impact of "Buy Now, Pay Later" (BNPL) and easy EMI options on youth.
- Designed and distributed a behavioural survey to 50+ Gen Z respondents, correlating aggressive UI defaults (e.g., pre-selected auto-pay and obscured interest terms) with a higher frequency of impulse borrowing.
- Authored and published the findings as a comprehensive research paper on Medium and personal website, merging behavioural economics with data analytics.

PROFESSIONAL EXPERIENCE

WalkingTree Technologies | Agentic AI and Data Engineering Intern

Apr 2026 - Jun 2026

- Organized and labelled raw data for the AlphaTree (Capital Market Solutions) ML pipeline to help train the team's machine learning models.
- Reviewed the AI training data to catch errors and ensure the final algorithms were accurate before they were used.
- Worked with the engineering team to understand how manual data preparation actually changes an AI model's final performance.

Techcompiler Data Systems Private Limited | Quality Assurance (QA) Intern

Apr 2025 - May 2025

- Tested new web and mobile apps on different devices to check basic features-like page loading and screen layout before the senior developers did their final review.
- Used the apps just like a regular user would, finding bugs and writing clear reports so the engineering team could fix them.
- Learned how professional software is actually built from start to finish by working alongside a formal engineering team.

LEADERSHIP & SOCIAL IMPACT

Change With One Meal (NGO) | Fundraising & Organizing Lead

May 2026

- Mobilized school and local community networks for crowdfunding drive to support a subsidized ₹10 meal model, raising funds to guarantee daily lunch rations for 30 daily wage workers in Delhi for one month.

Robin Hood Army | Active Volunteer

Mar 2026 - Present

- Regularly participate in grassroots social drives, including surplus food distribution, community clean-ups, clothing collection, and blood donation camps.

EXTRACURRICULAR ACTIVITIES

Model United Nations (MUN) | Delegate (NTU, Singapore & Fairgaze, India)

Nov 2025 - Present

- Actively debate complex geopolitical and economic policies. Also winner of 'High Commendation' award.
- Publish all position papers and research submissions publicly online to assist novice delegates in their preparation.

Cricket Player

- Played cricket for school & local club (Class 9-10) before pivoting focus to advanced academics and technical projects.

Acoustic Guitar

- Dedicated four years to learning the instrument (through Class IX), focusing on foundational music theory and chord progressions.

TECHNICAL SKILLS & INTERESTS

Core Competencies: Quantitative Analysis, Financial Metrics (Beta, Volatility), Software QA.

Tools & Platforms: Python, GitHub (Open Source Contributor), MS Excel, Web Development (HTML/CSS).

Languages: English (Fluent), Hindi (Native), French (Intermediate).