

# Visshwa Balasubramanian

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EDUCATION		
08/21 – 05/25	<b>Westwood High School</b>	Austin, Texas
	Weighted GPA: 5.1 Graduating with Distinguished Level of Achievement Plan and Endorsements in <b>STEM</b> SAT: <b>1410</b> (M: 760 R: 650) AP Exams: AP Human Geography: 4, AP Macroeconomics: 4, IB Spanish 4 SL: 5, IB Psychology SL: 5	
	<b>Clevered Student</b> <ul style="list-style-type: none"> <li>Received the AI/ML Certification</li> <li>Mastered Prompt Engineering, Neural Networks, Fine-Tuning, and Large Language Models</li> <li>Created Movie Recommendation projects, Music Recommendation programs, Chatbots, and Social Media Sentiment Analyzer that utilized Python Pandas</li> </ul>	
	Coursera <ul style="list-style-type: none"> <li><i>Fine Tuning LLMs</i> by Andrew Ng, Open AI</li> <li><i>Prompt Engineering</i> by Andrew Ng, Open AI</li> </ul>	
RESEARCH/ INTERNSHIP/ INDEPENDENT PROJECTS		
10th	<b>Tech Jedi</b> <i>Programming Intern &amp; Shareholder</i> <ul style="list-style-type: none"> <li>Designed curriculums about Tech and Programming Languages i.e. (Java, C++, C#) courses for education startup, receiving 500+ purchases</li> <li>Used Python to send requests to Open AI's GPT 3.5 model and receive high quality responses programmatically with automation using iterative sequences.</li> <li>Published independent course about Chess with assistance from Tech Jedi team</li> </ul>	5 Hrs/Week 9 Weeks/Yr

10th-11th	<b>CodeNinjas</b> <i>Paid Intern, Sensei</i> <ul style="list-style-type: none"> <li>Hosted Minecraft-modding camp for 10+ students</li> <li>Taught students how to use M-Creator to customize their own Minecraft worlds</li> <li>Organized Scratch Junior camp for 15+ students</li> <li>Educated students on block coding and the utilization of animation to create interactive environments</li> </ul>	2 Hrs/Week 9 Weeks/Yr
10th	<b>Inspirat AI Internship</b> <i>Intern</i> <ul style="list-style-type: none"> <li>Utilized advanced Python and Google Colab data manipulation techniques and completed a Facial Emotional Detection software</li> <li>Programmed a model that detects user emotions using facial images and could output emotions appropriately without labels</li> <li>Attended daily lectures to gain familiarity with Google Colab and the Python syntax libraries needed for project completion</li> </ul>	8 Hrs/Week 2 Weeks/Yr
12th	<b>VideoAssistant.AI</b> Backend Developer <ul style="list-style-type: none"> <li>Utilized expertise in AWS (Amazon Web Services) and CDK (Cloud Development Kit) to help the team manage all their resources programmatically.</li> <li>Built an infrastructure consisting of numerous AWS resources, such as Lambda, S3, SQS, DynamoDB, and API Gateway.</li> <li>Worked with a team of around twenty people on this SAAS product (Software As A Service)</li> <li>Code reviewed for the team using GitHub (Version control tool) and also suggested edits to make programs more efficient.</li> <li>Used LLMs to generate the content for base videos that users could choose from in the platform.</li> </ul>	5 Hrs/Week 8 Weeks/Yr
12th	<b>PiPartner App</b> Creator <ul style="list-style-type: none"> <li>Created an AI-based tutor app for students that are struggling or need help with certain math concepts.</li> </ul>	5 hrs/Week 10 Weeks/Yr

	<ul style="list-style-type: none"> <li>• Used OpenAI's API and model 4o for this task to ensure the best results possible.</li> <li>• Introduced a new framework for improving student performance through additional resources tailored to the specific topic at hand.</li> <li>• Utilized Flutter to build the UI and Dart programming language to code the user functionalities and general layout of the app.</li> <li>• Utilized Amazon AWS Lambda and API Gateway for the backend functionalities of the app, i.e letting the user input a problem and outputting their chat history with the tutor.</li> </ul>	
12th	<b>UTD DSA Summer Program</b> Student <ul style="list-style-type: none"> <li>• Applied and was accepted into UTD's prestigious DSA Summer program.</li> <li>• Learned all the complex and fundamental Data Structure's that are integral to Java and Computer Science.</li> <li>• Improved Java programming skills through various projects as part of the program and learned decision-making with Data Structure's</li> </ul>	3 Hrs/Week 8 Weeks/Yr
112h	<b>Algoverse AI Research Program</b> Researcher <ul style="list-style-type: none"> <li>• Applied and was accepted into the Algoverse LLM Research program.</li> <li>• Conducted research on the rational consistency &amp; calibration of Large Language models to assess the viability to integrate into classroom settings.</li> <li>• Utilized advanced training methods with Python and Google Colab to train LLMs on large datasets.</li> <li>• Wrote and published a research paper that was submitted to conferences.</li> </ul>	4 Hrs/Week 15 Weeks/Yr
<b>ACTIVITIES</b>		
11th-12th	<b>Westwood High School Artificial Intelligence Club</b> Member <ul style="list-style-type: none"> <li>• Participated in competitions about neural network accuracy within the club.</li> <li>• Presented research paper on LLMs to club members and officers</li> <li>• Learned about autonomous vehicles and the software behind their systems.</li> </ul>	2 Hrs/Week 30 Weeks/Yr

9th-12th	<b>Westwood High School DECA</b> <i>Web Developer (12th)</i> <ul style="list-style-type: none"> <li>Created <a href="#">website</a> for school chapter</li> <li>Utilized HTML programming skills to customize website and add new designs</li> <li>Added log-in system with AWS Cognito integration to allow users to have “member-status” feature.</li> </ul> <i>Competitor (9th-11th)</i> <ul style="list-style-type: none"> <li>Managed mock sports businesses while competing in Sports and Entertainment Team Decision Making and made decisions regarding marketing plan operations, advertising, public relations, and target market.</li> <li>Created a marketing plan for common services as part of Business Services Marketing event.</li> <li>Managed all marketing functions in order to create a comprehensive plan to increase sales rather than just in the service sector as in “BSM” as part of Marketing Team Decision Making.</li> </ul>	4 Hrs/Week 36 Week/Yr
10th-11th	<b>Westwood High School Chess Club</b> <i>Member</i> <ul style="list-style-type: none"> <li>Competed in 36 in-person tournaments</li> <li>Achieved 1300 United States Chess Federation rating as of 2023 and 1700 Chess.com rating as of 2021</li> <li>Studied grandmaster games to discover variations and lines to apply in tournament play</li> </ul>	2 Hrs/Week 36 Weeks/Yr
9th	<b>ATA Martial Arts</b> <i>Member</i> <ul style="list-style-type: none"> <li>Completed Purple Belt test in Taekwondo</li> <li>Attended sparring competitions; showcased talents by breaking boards and demonstrating discipline</li> <li>Assisted with setup and cleanup of events</li> </ul>	
11th-12th	<b>Westwood High School Spanish Honor Society (Sociedad Honoraria Hispanica)</b> <i>Member</i> <ul style="list-style-type: none"> <li>Selected through an application process requiring an average of 88 or above and 2 teacher recommendations</li> <li>Practiced spoken Spanish skills at meetings</li> <li>Presented meeting slideshows regarding meeting agenda</li> <li>Assisted in PASF conference travel and budgeting logistics</li> </ul>	4 Hrs/Week 36 Weeks/Yr

11th-12th	<b>Westwood High School National Honor Society Member</b> <ul style="list-style-type: none"> <li>• Donated clothes to the homeless through clothing drive</li> <li>• Created Valentine's Day cards for teachers to show student appreciation</li> <li>• Participated in a canned food drive for Austin area homeless shelters</li> </ul>	6 Hrs/Week 36 Weeks/Yr
<b>VOLUNTEERING</b>		
11th-Finished	<b>Code Club</b> <i>Founder, Lead AI Teacher, and Communications Manager</i> <ul style="list-style-type: none"> <li>• Crafted a curriculum for the first batch of students teaching AI topics such as Machine Learning, Neural Networks, and Data Science.</li> <li>• Maintained club communications via emails, newsletters, and polls for upcoming meetings</li> <li>• Tailored lesson plans to coordinate with Google Colab platform to better teach Data Science and AI alongside basic Python</li> </ul>	2 Hrs/Week 36 Weeks/Yr
10th - 11th	<b>Parinama</b> <i>Lead Instructor and Center Supervisor</i> <ul style="list-style-type: none"> <li>• Taught 1st-8th graders in Chess, Math, English, History, and Science and was responsible of keeping track of their progress through assessments</li> <li>• Utilized class textbooks and exercises to teach new opening, endgame, and middlegame strategies to students; leveraged prior chess-playing knowledge to advance student critical thinking skills</li> <li>• Cleaned center to attract new enrollments and maintain functionality of materials and technology</li> </ul>	4 Hrs/Week 36 Weeks/Yr
9th - 10th	<b>Austin Tamil School</b> <i>Assistant Teacher</i> <ul style="list-style-type: none"> <li>• Assisted lead teacher in classroom management of 12+ students</li> <li>• Posted and graded assignments on Google Classroom</li> <li>• Improved spoken Tamil skills while substituting for lead teacher</li> </ul>	4 Hr/Week 36 Weeks/Yr
11th	<b>First Lego League Robotics</b> <i>Coach</i>	5 Hrs/Week 8 Weeks/Yr

	<ul style="list-style-type: none"> <li>Utilized coding skills to assist 5 students with innovation project requiring robot navigation of obstacles on a set course.</li> <li>Guided the team to 1st place Regional and 3rd place State finishes</li> <li>Created presentations about the thought process, feasibility, and cost analysis for innovation project</li> </ul>	
11th	<b>Sierra Club</b> <i>Booth Manager - Lakeline Mall Farmers Market</i> <ul style="list-style-type: none"> <li>Represented the Austin chapter of the Sierra Club at weekly farmers market</li> <li>Advocated for combating global warming and reducing carbon emissions</li> <li>Generated 50+ signatures for Sierra Club informational email list about meetings and community service efforts</li> </ul>	2 Hrs/Week 3 Weeks/Yr
<b>HONORS &amp; AWARDS</b>		
10th	<b>Presidential Volunteer Service Award - Bronze</b> <ul style="list-style-type: none"> <li>Completed 100+ hours of community service at Parinama Academy</li> </ul>	
10th	<b>National Spanish Exam – Silver Medal</b> <ul style="list-style-type: none"> <li>Scored in top 95% of test takers out of 3000 test takers</li> </ul>	
11th	<b>DECA Virtual Business Challenge: Entrepreneurship</b> <ul style="list-style-type: none"> <li>Placed 23rd nationally and 8th in Texas region South</li> <li>Simulated a fast-food restaurant and bowling business to achieve highest profit within competition window</li> <li>Managed business finances and operations such as market research, acquiring resources, setting prices, monitoring backlog, and etc.</li> </ul>	
9th	<b>DECA State Finalist</b> <ul style="list-style-type: none"> <li>Placed in the top 10 in Sports Entertainment Team Decision Making event</li> <li>Averaging score of 85 on the Marketing Cluster Exam (84 &amp; 86)</li> </ul>	
10th	<b>DECA State Qualifier</b> <ul style="list-style-type: none"> <li>Qualified for State Conference in Business Service Marketing event out of 10+ schools in District 5</li> <li>Received a score of 81 on the District Exam and Marketing Cluster Exam</li> </ul>	

	<ul style="list-style-type: none"> <li>• Researched market trends, creative marketing strategies for services, and best practices for promoting services and selecting optimal target markets</li> </ul>	
11th	<b>North South Foundation State Level Computer Science Bee</b> <ul style="list-style-type: none"> <li>• Placed 2nd out of 20 competitors</li> <li>• Demonstrated skills in Python and Javascript</li> <li>• Received a score of 25/30 multiple choice questions about code tracing</li> </ul>	
11th	<b>CodeHS Level 1 Cybersecurity Certification</b> <ul style="list-style-type: none"> <li>• Completed Cybersecurity Level 1 Certification Exam with score of 45/50 (90%)</li> <li>• Passed alongside only 4 other people in the whole school enrolled in a cybersecurity class (approximately 100)</li> </ul>	
<b>SKILLS, TALENTS &amp; ACHIEVEMENTS</b>		
	<b>Languages</b> <i>Hindi</i> <ul style="list-style-type: none"> <li>• Professional Working Proficiency</li> <li>• Extracted and interpreted advance uses of the language in North Indian movies.</li> <li>• Conversed in solely Hindi during visits to Delhi and Pune in North India</li> <li>• Helped translate sentences and phrases to my parents when communicating with local vendors.</li> </ul> <i>Tamil</i> <ul style="list-style-type: none"> <li>• Primary Fluency / bilingual proficiency</li> <li>• Talked with my grandparents in Tamil only on the phone.</li> <li>• Assisted them with translation during their visits to the US relaying them the information in Tamil from English</li> </ul> <i>Spanish</i> <ul style="list-style-type: none"> <li>• Professional Working Proficiency</li> <li>• Communicated with waiters at Mexican restaurants in Spanish while ordering food (I'm sorry I couldn't think of anything else 😭)</li> </ul>	
	<b>Programming</b>	

	<ul style="list-style-type: none"> <li>● Fluent in Python: created mini-projects regarding Data Science, Silver on Hackerank, Created AI Assistant for high school students</li> <li>● Master in Java: Silver on Hackerrank, Certified in ITS and Hackerrank</li> <li>● Working proficiency in HTML: Created personal website, and DECA website</li> <li>● Beginner in Javascript: Worked on application for PiPartner Project (AI Assistant)</li> <li>● Proficient in Dart (AI Assistant)</li> <li>● Expert in AWS (Amazon Web Services): i.e Cognito, Lambda, API Gateway, SQS, S3, and more.</li> </ul>	
	●	
9th-Current	<b>Drawing</b> <ul style="list-style-type: none"> <li>● Worked on Portraits of famous celebrities, such as Trump, Albert Einstein, and etc; used sketching techniques.</li> <li>● Completed Acrylic Paintings of Buddha, and other landscapes</li> <li>● Dabbled in watercolor painting learning proper brush techniques</li> </ul>	
9th-10th	<b>Carnatic Music</b> <ul style="list-style-type: none"> <li>● Studied for 6 years consistently</li> <li>● Participated in religious gatherings and sang devotional songs using Carnatic music skills</li> </ul>	
9th-10th	<b>Piano</b> <ul style="list-style-type: none"> <li>● Took lessons for 1 year and performed at 2 recitals</li> <li>● Performed in front of other piano students and parents that were part of the class</li> </ul>	
9th	<b>Dance</b> <ul style="list-style-type: none"> <li>● Learned Tamil folk dance for 3 years</li> <li>● Performed at 5 religious events associated with Austin Tamil Sangam</li> <li>● Received awards for the best performance 2 out of the 5 years</li> <li>● Performed at San Antonio with a group for a huge cultural event</li> </ul>	