

ABHINAV RAJ

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EDUCATION

University of Illinois, Urbana-Champaign - B.S. in Computer Science & Linguistics, 2025 - 2029

Shiv Nadar School, Noida, 2015 - 2025

CBSE Board

Grade 9 - 87%

Grade 10 - 96%

Grade 11 - 87%

Grade 12 - 96%

EDUCATIONAL COURSES

Harvard University

CS50's Web Programming with Python and JavaScript

June 2024

- Completed a rigorous course focused on the design and implementation of web applications using Python, JavaScript, and SQL.
- Developed three comprehensive web applications as part of collaborative group projects, enhancing user engagement by up to 30% through improved functionalities.
- Gained proficiency in frameworks like Django, React, and Bootstrap, applying best practices in software development and user interface design.

Veritas AI Summer School

June 2024

- Selected for an elite program focusing on artificial intelligence and machine learning.
- Collaborated with a group of 14 students to analyze NYC traffic accident data (74,881 data points), achieving a predictive accuracy of 99.82% for fatalities using advanced machine-learning techniques.
- Developed real-world solutions to traffic safety issues, employing methods like one-hot encoding and SMOTE for class imbalance challenges.

AI Internship Program by Aman Kesarwani

June 2023

- Participated in a structured curriculum designed to immerse students in the field of artificial intelligence, covering topics from fundamental machine learning principles to advanced neural networks.
- Engaged in hands-on projects that allowed for practical application of theoretical lessons, including data preprocessing, model training, and evaluation techniques.
- Collaborated with a team to develop an AI model, contributing to discussions on ethical considerations in AI and its impact on society.
- Gained proficiency in programming languages such as Python and tools like TensorFlow, enhancing skills in algorithm design and implementation.

LEADERSHIP

SilentSync App

Nov 2023 - May 2025

- Launched an innovative app designed to empower deaf employees by fostering an inclusive workplace environment.
- Conducted over 100 user interviews and feedback sessions, refining app features based on the needs of 50+ deaf

individuals and 10 retail partners.

- Successfully secured partnerships with local businesses, resulting in a 40% increase in app usage and engagement.
- The app has been downloaded by over 150 users within the first month of launch, promoting equal opportunities and effective communication.

Supporting Janseva Initiative

June 2023 - May 2025

- Led a community project providing essential items like fresh fruits, juice, and protective gear to blue-collar workers facing extreme weather conditions.
- Raised awareness and funds within the local community, resulting in over 200 items distributed, significantly improving laborers' working conditions and well-being.

Augmented Reality Furniture App Development

March 2024 - December 2024

- Collaborating with mentor Khagendra to design and develop an innovative Augmented Reality (AR) app that allows users to showcase and preview furniture in their own spaces.
- Created an intuitive app layout using Figma, focusing on user-friendly navigation and aesthetic appeal to enhance the overall user experience.
- Developed the app using Unity, leveraging AR technology to provide an immersive experience where users can visualize how different pieces of furniture would look in their homes.
- Conducted user testing sessions with potential users to gather feedback, iterating on design elements to improve functionality and usability.
- Aimed for a launch date in [insert projected launch date], with plans to integrate features such as virtual measurements and customization options for users.

INTERNSHIPS

Axeno Consulting Pvt. Ltd.

Noida, India

June 2023

- Completed an intensive internship focused on User Experience (UX) design, contributing to multiple high-profile client projects.
- Conducted user research with over 30 participants, analyzing feedback that led to a 20% increase in customer satisfaction scores.
- Created 20+ wireframes and mood boards, effectively communicating design concepts and garnering positive feedback from project stakeholders.

ACADEMIC HONORS & AWARDS

- **School Award for Academic Excellence** (2022, 2023, 2024)
Maintained an impressive 90%+ across subjects, consistently placing in the top 10% of the class.
- **Swimming Meet Awards:**
 - 1st Place in 50m Butterfly and 50m Freestyle at the SBS Championship.

RESEARCH PAPER

Deaf Accessibility to Public Spaces

February 2024

- Conducted extensive research to examine the current state of accessibility for deaf individuals in public spaces, identifying key barriers such as inadequate signage, lack of trained staff, and insufficient technological support.
- Synthesized findings from recent studies, gathering data from over 30 sources, including academic journals, government reports, and case studies on successful accessibility initiatives in urban environments.
- Proposed evidence-based strategies aimed at enhancing inclusivity, such as the implementation of visual communication systems and the incorporation of assistive technologies.

- Contributed to the ongoing discourse on disability rights and urban planning by presenting the paper at the Innosphere Research Conference, where it received positive feedback for its insights and practical recommendations for policymakers.

EXTRACURRICULARS

Round Square Conference

October 2023

- Actively participated in discussions with 30 students on strategies for increasing inclusivity in STEM fields.
- Developed actionable proposals for specific programs, including mentorship initiatives, which received recognition for their potential impact on underrepresented communities.

Photography Club

April 2022 - 2024

- Captured over 300 high-quality images at 10 events, specializing in portrait, landscape, and architectural photography.
- Part of a photography exhibit showcasing student work, in school photography club.

Robotics Club

April 2024 - 2025

- Contributed to the design and programming of functional robots, participating in local competitions that enhanced teamwork and engineering skills.
- Collaborated on a project that won the “Best Innovation” award at the regional robotics competition, demonstrating the practical application of programming and design concepts.

Music

April 2017 - 2022

- Pianist for Primary School, Middle School, and High School Orchestra
- Transitioned from classical music to producing musical pieces blending genres and showcasing versatility in performance.

Swimming

May 2015 - 2022

- Competed in 15+ inter-school and district swimming meets, consistently achieving top placements in butterfly and freestyle events.
- Served as a junior coach, mentoring younger swimmers in the society swimming pool..

COMMUNITY ENGAGEMENT

AOA and RWA Cleaning Drives

June 2022 - June 2025

- Collaborated with local AOA (Apartment Owners Association) and RWA (Resident Welfare Association) organizations to participate in community cleaning drives, fostering a cleaner and more sustainable environment.
- Actively engaged in maintaining community gardens, including tasks such as trimming excess branches and pruning shrubs to promote healthy growth and vibrant aesthetics.
- Organized teams of volunteers to sweep local roads, effectively removing litter and debris to ensure safe, clean pathways for residents and visitors.
- Implemented a regular plant watering schedule to maintain lush greenery in community spaces, enhancing the overall beauty and ecological health of the neighborhood.

SKILLS

- **Languages:** Proficient in English, Hindi, and French, enabling effective communication in diverse settings.

- **Research Tools:** Experienced with Google Scholar, Noodle Tools, and academic databases, utilizing these resources to enhance research quality.
- **Coding Languages:** Proficient in Python, SQL, and Java, with practical experience in developing algorithms and data structures.
- **UI/UX Design:** Skilled in Figma and Adobe XD, with a strong understanding of user-centered design principles and application development.