

Aditi Vyas

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OVERVIEW

Computer Science graduate majoring in Artificial Intelligence and Cybersecurity, with hands-on experience designing machine learning models, online apps, and unique assistive technology solutions. I'm passionate in using AI to solve real-world accessibility and security issues.

EDUCATION

The George Washington University , School of Engineering and Applied Science	Aug 2023 – May 2025
<i>Master of Science in Computer Science</i>	Washington DC, United States
Specialization: AI, Cybersecurity & Web Development	
New Horizon College of Engineering , Affiliated to VTU	July 2019 – June 2023
<i>Bachelor of Engineering in Computer Science & Engineering</i>	Bengaluru, India

SKILLS

- Programming Languages:** Python, Java, C, Linux
- Web Development:** HTML, CSS, Bootstrap
- Machine Learning:** LSTM, YOLO, MediaPipe, Random Forest, Gradient Boosting
- Software Tools:** Android Studio, Microsoft Office, Canva

RELEVANT PROJECTS

Sign Language Detection using LSTM and MediaPipe	Nov 2024 – Dec 2024
<ul style="list-style-type: none"><i>Technologies:</i> LSTM, MediaPipe<i>Description:</i> Developed a system to facilitate communication for the deaf and hard of hearing through advanced sign language detection.	
Python ASCII Art Generator	Oct 2024 – Dec 2024
<ul style="list-style-type: none"><i>Technologies:</i> Python, Pillow Library<i>Description:</i> Created a tool to convert images into ASCII art, supporting various file formats including JPG and PNG.	
People Counting in Video Streams	Sept 2024 – Oct 2024
<ul style="list-style-type: none"><i>Technologies:</i> Python, YOLO<i>Description:</i> Developed a script for counting individuals in video feeds, applicable to surveillance and monitoring.	
Hand Gesture Navigation System	Jan 2024 – May 2024
<ul style="list-style-type: none"><i>Technologies:</i> Python, CNNs, Deep Learning<i>Description:</i> Engineered a system enabling browser and OS control via real-time hand gesture recognition.	
BMyVision: A Virtual Eye for the Visually Impaired	Jan 2023 – May 2023
<ul style="list-style-type: none"><i>Technologies:</i> Python, YOLO, NLP, Database Management<i>Description:</i> Designed an application to detect and describe objects for visually impaired users, leveraging AI and database technologies.	

WORK EXPERIENCE

Rovae Incorporation	Bengaluru, India
<i>Software Engineer Intern</i>	Jan 2023 – April 2023
<ul style="list-style-type: none">Developed responsive client websites that greatly increased user engagement using sophisticated web technologies.Collaboration with engineering teams improved project planning and design, decreasing development time by 20%.Included user feedback, optimized website functionality, and increased client happiness by 15%.	

PUBLICATION

International Journal of Scientific Research in Science, Engineering and Technologies
Paper was delivered at the 4th National Conference on Advancements in Computer Science and Engineering (print ISSN: 2395-1990 | online ISSN: 2394-4099). May 2022, Volume 9, Issue 11.

CERTIFICATION

AWS Academy Cloud Architecting (Amazon Web Services)	Red Hat System Administration I 9.3 - RH124 (Red Hat)
Containers & Kubernetes 4.10 - DO180 (Red Hat)	Red Hat System Administration II 9.3 - RH134 (Red Hat)
Introduction to Containers with Podman 4.14 - DO188 (Red Hat)	Getting Started with Linux Fundamentals 9.1 - RH104 (Red Hat)
CCNAv7: Enterprise Networking, Security, and Automation (Cisco Networking Academy)	CCNAv7: Introduction to Networks (Cisco Networking Academy)
Internet of Things – IoT (Academy Europe Open University)	Cloud Computing (NPTEL)