

Neha Tabassum

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EDUCATION

Maulana Azad National Institute of Technology <i>Bachelor of Technology in Computer Science</i>	Bhopal, India 2022 – 2026
Our Own English High School <i>XII, CBSE</i>	Sharjah, UAE 2022
Our Own English High School <i>X, CBSE</i>	Sharjah, UAE 2020

EXPERIENCE

SDE Intern <i>Hashcron Technologies</i>	June 2024 – August 2024 Sharjah, UAE
<ul style="list-style-type: none">Developed and optimized Joget-based applications, improving workflow efficiency by 20% for a team of 10+ members, reducing task completion time.Collaborated with cross-functional teams to enhance project outcomes, increasing team productivity by 15% through effective communication and leadership strategies.	

PROJECTS

AgriPredict <i>React, Express.js, Multilingual UI, MongoDB, Docker</i>	(In-progress)
<ul style="list-style-type: none">Implemented a responsive, multilingual interface using React.js and Tailwind CSS, enabling farmers to upload crop images and receive instant AI-driven diagnosis results.Integrated a pretrained MobileNetV2 model to the backend through RESTful APIs, delivering real-time predictions and actionable recommendations.Optimized API calls, Express.js routing, and React state management to cut re-renders and deliver predictions in under 2 seconds.	
Hand Gesture Recognition System <i>Python, OpenCv2, Computer Vision</i> Github	March 2025
<ul style="list-style-type: none">Designed a real-time hand gesture recognition system with 30% faster processing speed achieving 95% accuracy across 4 gestures (wave, point, peace, fist).Improved image processing by 50% through background subtraction and ROI-based thresholding.Devised a motion-prioritized gesture detection algorithm, slashing errors from rapid hand movements by 25%.	
Langentify <i>Python, TF-IDF Vectorization, Flask, Javascript, HTML, CSS</i> Live	Dec 2024
<ul style="list-style-type: none">Built a Machine Learning model using Scikit-learn and TF-IDF Vectorization, achieving 95% accuracy across 500+ multilingual text samples.Engineered a Flask REST API with token-based rate limiting (50 req/min) and input sanitization.Developed an interactive frontend with real-time predictions and word limit validation (200 words).	

TECHNICAL SKILLS

Programming Languages: Python, C, C++, SQL, JavaScript, HTML, CSS, TypeScript
Frameworks & Libraries: React, Node.js, Flask, Express.js, Tailwind CSS
Databases & Cloud: MySQL, MongoDB, PostgreSQL, Vercel, Render
Developer Tools: Git, VS Code, Anaconda, Jupyter Notebook, Docker
Soft Skills: Problem-Solving, Agile Collaboration, Ethical Conduct & Confidentiality, Analytical Thinking

LEADERSHIP & EXTRACURRICULARS

Design Secretary, Drishtant	July 2024 – Present
<ul style="list-style-type: none">Led creative design initiatives using Adobe Photoshop, producing 30+ visually appealing assets.Managed event publicity, increasing event participation by 20%.	
Creative Head, Intellect Browsers' Consortium	July 2024 – Present
<ul style="list-style-type: none">Directed 15+ innovative projects, enhancing team creativity and delivering presentations that increased audience engagement by 25%.Applied Scrum methodology, holding weekly stand-ups and ensuring timely delivery of designs.	

ACHIEVEMENTS

- Contributor, **2025 GSSoC program**, an open-source initiative by GirlScript Foundation.