

Arshiya Singh

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Education

Indira Gandhi Delhi Technical University for Women	CGPA: 8.66
Bachelor of Technology in Electronics and Communication Engineering	2023-2027
D.L. D.A.V Model School, Pitampura, Delhi - CBSE	
Class 12th	2023

Skills

- **Programming Languages:** C, C++, JavaScript
- **Web Development:** HTML, CSS, Tailwind CSS
- **Libraries & Frameworks:** Pandas, NumPy, Matplotlib, Scikit-learn, Seaborn
- **Machine Learning:** Unsupervised Learning, Feature Scaling
- **Tools & Platforms:** Git/GitHub, API Integration, Figma (UI/UX)
- **CS Fundamentals:** Data Structures and Algorithms, Object-Oriented Programming, DBMS

Experience

Centre of Excellence – Artificial Intelligence, IGDTUW	June – July 2024
<i>Summer Research Intern</i>	
<ul style="list-style-type: none">• Analyzed 200 mall customer profiles with K-Means and Gaussian Mixture Models (GMM); discovered 6 overlapping clusters vs. 3 distinct probabilistic groups.• Applied Explainable AI methods (SHAP, LIME) to identify and interpret key drivers of customer segmentation.• Co-authored and presented “Enhanced Customer Segmentation: A Comparative Analysis” at the 8th International Conference on Innovative Computing and Communication (ICICC 2025), Springer Proceedings.	

Projects

Maa&More : Maternal Healthcare & Pregnancy Tracker Github link	June 2025
<i>Tech Stack: HTML, CSS, JavaScript</i>	
<ul style="list-style-type: none">• Built a responsive multi-page web platform for maternal healthcare, offering personalized pregnancy tracking and weekly guidance. Designed intuitive navigation and visuals to improve accessibility and user experience for expectant mothers.	
Weather App Github link	May 2025
<i>Tech Stack: HTML, CSS, JavaScript, OpenWeather API</i>	
<ul style="list-style-type: none">• Developed a responsive weather app with real-time temperature, humidity, wind speed, and weather icons using OpenWeather API. Integrated robust error handling and dynamic DOM updates for a smooth and reliable user experience.	
Enhanced Customer Segmentation : A Comparative Analysis Github link	September 2024
<i>Tech Stack: Python, Scikit-learn, SHAP, LIME, Matplotlib</i>	
<ul style="list-style-type: none">• Implemented advanced clustering techniques using K-Means and Gaussian Mixture Models (GMM) to refine segmentation accuracy. Integrated explainable AI methods such as SHAP and LIME to derive clear, actionable insights from model predictions, improving the interpretability of customer behavior patterns.	

Achievements

Third Position – Smart Product Design Ideathon, TechSpectra’24 by IIITD	August 2024
Selected for Adobe Hackathon Industry Round (Top 4% out of 2.6L+ participants)	July 2025
Certificate of Achievement – UI/UX mentee in GDSC Mentorship Circle [Certificate]	April 2024

Position of Responsibility

Content Lead NIRVANA: The Design Club, IGDTUW	April 2024 – Present
Content Head ACM IGDTUW Student Chapter	September 2024 – Present
Creative team member Rotaract Club, IGDTUW	September 2024 – Present