

SHREYA SINHA

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SUMMARY

Detail-oriented graduate with hands-on experience in Python, Java, SQL, and academic projects in Machine Learning, and data structures and enthusiasm to apply problem-solving skills in a dynamic, impactful environment.

TECHNICAL SKILLS

- Languages:** Python, Java, SQL
- Framework:** Pandas, Numpy, Matplotlib, sklearn
- Web Development:** HTML, CSS, JavaScript, MVC
- Tools:** VS Code, PyCharm, Apache NetBeans, Google Colab, Microsoft Power BI

WORK EXPERIENCE

- Software Developer – Intern** | [Link](#) **17 May 2022 to 16 July 2022**
Arinsys Enterprise Solutions Private Limited
 - Responsibilities:** Developed modular web components for a B2B E-commerce platform using ASP.NET Core and Blazor.
 - Collaborated with a cross-functional team to deliver a responsive, scalable architecture.
 - Mentored junior developers and contributed to UI/UX improvements.
 - Technology Used:** .NET 6, C#, Razor Pages, Git

PROJECTS

- Network Anomaly Detection using Autoencoders and Reinforcement Learning** | [Link](#) **Aug 2024-May 2025**
 - Overview:** Developed a network anomaly detection system using integrated Autoencoder and Reinforcement Learning model.
 - Conducted a comparative analysis of models based on accuracy, precision, and recall metrics.
 - Technology Used:** Autoencoders, Reinforcement Learning
- Power BI Superstore Dashboard** | [Link](#) **June 2025**
 - Created a comprehensive business intelligence dashboard analyzing sales and customer trends using Power BI.
 - Implemented interactive filtering, calculated KPIs, and created custom visuals to derive actionable insights.
 - Technology Used:** Microsoft Power BI, DAX

PATENT

- Reinforcement Learning-Based Autonomous Water Management System** | IPR0002219
Overview: proposed a technically advanced irrigation control system featuring a local reinforcement learning engine that processes a multi-dimensional state vector (including soil, aquifer, climate, and crop parameters) to generate optimal irrigation actions in real-time.

EDUCATION

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| Masters in Computer Application
Vellore Institute of Technology, Vellore | 2024 - 2026
CGPA: 8.89 |
| Bachelor of Computer Application
Birla Institute of Technology, Mesra | 2021 - 2024
CGPA: 8.97 |
| CBSE XII
Creane Memorial High School, Gaya | 2019 -2021
Percentage: 91% |
| CBSE X
Elegant Public School, Gaya | 2019
Percentage: 96.6% |

CERTIFICATION

- Practical Reinforcement Learning using Python :**
Issued by: VIT Vellore | [Certificate](#)
Trained on Q-learning, SARSA, Deep Q-Networks (DQNs), policy/value methods for real-world RL applications.
- Introduction to Cybersecurity :**
Issued by : CISCO | [Certificate](#)
Gained the foundational knowledge in Cybersecurity principles and tools such as: Have I been pwned?, OpenStego.