Shreya Mittal
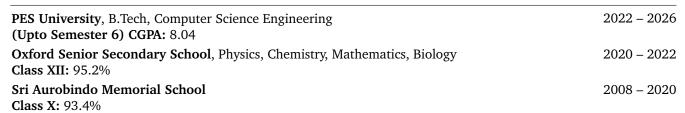
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Education

PES University, B.Tech, Computer Science Engineering	2022 – 2026
(Upto Semester 6) CGPA: 8.04	
Oxford Senior Secondary School, Physics, Chemistry, Mathematics, Biology	2020 – 2022
Class XII: 95.2%	
Sri Aurobindo Memorial School	2008 – 2020
Class X: 93.4%	

Experience

Summer Intern, Centre for Healthcare Engineering and Learning, PES University June – July 2025

- Worked on **dyslexia detection** using eye-tracking data. Augmented dataset by **generating 140 synthetic subject**s using **controlled noise injection**, preserving key spatial-temporal patterns.
- Trained a **logistic regression model** on the expanded dataset, achieving **81% accuracy** using fixation-based features, while avoiding overfitting. **[Github Link]**

Project Intern, Fabrik June – August 2024

- Worked with **React-Three-Fibre** and **Three.js** to import, render, and customize 3D models and text. Used **Firebase** for storage.
  Project Links: procrastinoters.vercel.app, module-02-vert.vercel.app
- Worked as part of a 3-member group to develop a website for **custom 3D animations**, including merging animations, changing mesh materials, adding lighting, setting up multiple camera perspectives, and post-processing.
  Project Link: xenomorphs.vercel.app

Academic Projects

Legal Contract Analysis System Using RAG | *Machine Learning, Pinecone, Gradio*

- Built an AI-driven platform for **legal contract analysis** using **Retrieval-Augmented Generation** (RAG), hybrid semantic/keyword search, and metadata filtering. Enabled users to upload and analyze legal contracts through a Gradio web interface, supporting **clause extraction, risk identification, compliance checks**, and **contract comparison**. **[Github Link]**

Load-Balanced URL Shortener | *Docker, Kubernetes*

- Developed a scalable URL shortening service using **Flask** and **MySQL**, deployed on Kubernetes with **load balancing**, **horizontal pod autoscaling**, and stress testing capabilities, handling high concurrent traffic across multiple replicas. **[Github Link]**

Fraud Detection in Credit Card Transactions | *Apache Spark, Kafka, MySQL*

- Developed a comprehensive fraud detection system that processes financial transactions using both streaming and batch processing approaches to detect fraudulent transactions in real-time and analyze historical data. **[Github Link]**

LabVerse | *Three.js, WebXR*

- Developed LabVerse, a **WebXR-based VR experience** simulating the Cave Labs at PES University using Three.js with **interactive 3D environments**. Implemented realistic lighting for immersive experience and **VR-controller support** along with cross-platform compatibility.
  Project Link: lab-verse-ten.vercel.app

Bakezy | *MERN Stack*

- Developed a **recipe website** where users can browse through bakery treats and view detailed recipes for selected items.
  Project Link: bakezy.vercel.app

Travel Agency | *React, MySQL*

- Developed a **travel agency/car rental website** where users can choose from different car types and book their desired car for their vacation. **[Github Link]**

Technical Skills

Programming Languages: Python, C/C++, HTML, CSS, React, Javascript, Shell
Frameworks/Tools: Docker, Kubernetes, Git, GitHub, Vercel, Hadoop, Apache Spark, Kafka
Databases: MySQL, Firebase, Pinecone

Certifications and Extra-Curriculars

- GirlScript Summer of Code (GSSoC) 2025 Contributor
- **Google Gen AI Academy** - Completed a comprehensive learning path comprising 5 courses and explored tools like Vertex AI, Gemini, Streamlit, Imagen and Multimodal RAG. [Certificate]

Positions of Responsibility

The AICoding Club, PES University   Design Team Member

- Contributed to designing banners, posters, and social media posts for technical events.