SHREYA GUPTA
Course : **B.E. (Hons.)**, Electrical & Electronics
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ACADEMIC DETAILS

COURSE	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	SCORE	YEAR
CLASS XII	Delhi Public School, Greater Noida	CBSE	95.6 %	2023
CLASS X	Delhi Public School, Greater Noida	CBSE	97.67 %	2021

Subjects / Electives	Signal and Systems, Microelectronic Circuits, Control Systems, Communication Systems, Artificial Intelligence, Digital Design, Microprocessing and Interfacing, Computer Programming, Foundation of Data Structures and Algorithms, Electronic Devices, Database Systems
Technical Proficiency	Python, MongoDB, Machine Learning, API, Excel, Artificial Intelligence, Data Science, DBMS, C++ Language

INTERNSHIPS

Data Engineer Intern, SYSSTRA by Convergence Futuristic Solution Enterprise Pvt. Ltd.   **May 2025 - Jul 2025**
- Developed **end-to-end data pipelines** for high-frequency and end-of-day financial data using **Python** and **MongoDB** for a multi-market algorithmic trading platform.
- Integrated **ICICI Direct Breeze API** and **yfinance** to acquire and process **real-time and historical market data** across multiple asset classes.
- Built and automated **backtesting workflows** for evaluating algorithmic trading strategies and analyzing performance metrics.
- Implemented **quantitative analysis** using financial performance indicators to assess strategy profitability.
- Optimized codebase for improved **efficiency, scalability, and maintainability**, and contributed to technical documentation.
- Collaborated within the engineering team to enhance system reliability in a **scalable fintech environment**.

PROJECTS

Early Warning and Intervention Recommendation System for OTT Show Retention - Machine Learning 🔗   **Dec 2025 - Dec 2025**
- Built an **XGBoost-based early-warning system** to estimate OTT show drop-off risk from **early engagement signals**, using **probabilistic risk scoring and bucketing (Low / Medium / High)** to handle class imbalance and uncertainty.
- Performed **diagnostic analysis** by comparing high-risk shows against **successful engagement baselines** to identify **key underperforming content dimensions**.
- Developed a **targeted intervention recommendation framework** that prioritizes the **most severe engagement gaps** and converts them into **actionable, content-level insights**.

Context-Aware Multimodal Question-Answering and FAQ Generating System - Generative AI 🔗   **Feb 2025 - May 2025**
- Designed and implemented a **Multimodal Retrieval-Augmented Generation (RAG)** system to intelligently ingest and process diverse documents by extracting text, tables, and images using **LLMs** for downstream question-answering
- Built a modular pipeline for **tokenization, chunking, and dense embedding generation,** storing high-dimensional vectors in the **Qdrant vector database** to enable efficient and scalable semantic search
- Automated **FAQ generation** through carefully engineered **LLM-driven prompts**, integrating structured outputs into the knowledge base to improve **retrieval coverage**, reduce redundancy, and enhance user experience
- Employed a hybrid retrieval mechanism combining **vector similarity search** with a **BM25 fallback (threshold < 0.95)**, ensuring reliable, citation-backed, and context-rich answers with significantly improved accuracy, recall, and interpretability

AI-Driven Lesson Plan Report Generator - Generative AI 🔗   **Oct 2024 - Dec 2024**
- Designed an **AI-assisted system** using Streamlit and OpenAI GPT models to automate the creation of structured, high-quality lesson plan reports.
- Implemented coordinated **Autogen multi-agent workflows** to generate, refine, and format content with consistency and clarity.
- Developed **template-based DOCX generation**, enabling instant export of polished, ready-to-use educational reports.
- Built a modular, extensible **web interface** supporting customizable inputs and seamless addition of new report templates.

AeroSwift Drone Logistics Management System - Drone-Based Logistics Automation 🔗   **Jul 2024 - Sep 2024**
- Designed and deployed a full-stack **drone logistics automation system** featuring a normalized MySQL database for managing customers, orders, drones, pilots, airspace zones, and deliveries.
- Implemented advanced **stored procedures, triggers, and validation rules** to automate drone assignment, pilot licensing checks, route approvals, and compliance generation.
- Built a fully interactive **Streamlit web application** enabling order placement, workflow visualization, system monitoring, and analytics dashboards.

AWARDS AND RECOGNITIONS

Scholar Trophy | Delhi Public School, Greater Noida   **Feb 2022**
Awarded for achieving academic proficiency for six consecutive years .

Scholar Medal | Delhi Public School, Greater Noida   **Feb 2021**
Awarded for maintaining academic proficiency for five consecutive years

Scholar Blazer | Delhi Public School, Greater Noida   **Jan 2019**
Received for earning the Scholar Badge for three consecutive years, recognizing consistent academic excellence.

Scholar Badge for Academic Proficiency | Delhi Public School, Greater Noida   **Feb 2015**
Achieved for three consecutive years of outstanding academic performance.

CERTIFICATIONS

CERTIFICATION	CERTIFYING AUTHORITY
Supervised Machine Learning: Regression and Classification	DeepLearning.AI, Stanford University
Machine Learning A–Z	SuperDataScience	Udemy

CONFERENCES AND WORKSHOPS

Robotics and Sensors Workshop
Organized by: **Delhi Public School , Greater Noida** | Date: **Aug 2018**

LANGUAGES KNOWN

Hindi,English