

Arnav Sharma

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Professional Summary

Data Analyst and pre-final year engineering student skilled in **Python, SQL, Excel, and Power BI**. Experienced in **data cleaning, visualization, predictive modeling, and AI applications** including RAG and LangChain. Strong foundation in **databases, statistics, and cloud computing** with proven leadership as Marketing Lead at CloudOps Club.

Education

Vellore Institute of Technology, Chennai <i>B.Tech in Electronics and Communication Engineering</i>	2022 – 2026
Greenfields Public School, Delhi <i>Class 12 (CBSE)</i>	CGPA: 7.94 2019 – 2021 88%
Greenfields Public School, Delhi <i>Class 10 (CBSE)</i>	2017 – 2019 95.2%

Technical Skills

- Programming:** Python (NumPy, Pandas), Java, C, C++, SQL, Excel
- Analytics & ML:** Statistics, Data Cleaning, Regression, Classification, Deep Learning, Agentic AI, RAG
- Visualization:** Power BI, Tableau, Matplotlib
- Databases & Cloud:** MySQL, ChromaDB, Oracle Cloud, AWS, LangChain

Projects

- Food Recommendation Agent & Calorie Tracker** – Built a **RAG-based chatbot** with **LangChain + ChromaDB** for personalized diet plans. Added calorie tracking with **Python (Pandas)**, generating nutrition reports with **95% accuracy** across 100+ test cases.
- Library Management System (SQL)** – Designed normalized schema and implemented **CRUD, triggers, joins, and reporting queries**. Optimized queries reduced **record retrieval time by 60%** and cut manual tracking effort by **70%**.
- LinkedIn Profile Summarizer (Agentic AI)** – Automated profile parsing and skill extraction using **LangChain + LLMs**, enabling recruiters to save **50% time** in candidate screening.
- PDF to Podcast Converter** – Summarized text with **spaCy + HuggingFace Transformers** and converted to audio using **gTTS**, improving accessibility for **50+ research documents**.
- House Price Prediction Model** – Trained regression models (**Linear Regression, XGBoost**) achieving **85% R²** on structured datasets with a **30% accuracy improvement** after feature engineering and tuning.

Certifications

Oracle AI Foundations (2024) — IBM GenAI Applications (2025) — IBM RAG Applications (2025) — IBM Vector Databases (2025) — NPTEL DBMS (2023) — NPTEL Project Mgmt (2025)

Extra-Curricular Activities

- Marketing Lead, CloudOps Club (VIT Chennai) (2023–24)** – Coordinated Ideathon & webinars, promoted AWS/Oracle usage, and helped CloudOps become the top-skilled club at VIT.
- Conducted peer workshops on **AI, Cloud, and Data Analytics tools**.