Violina Das

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EDUCATION

- **Regional Institute of Science and Technology (NEHU)** — Meghalaya, India
  B.Tech in Computer Science and Engineering — *2021 – 2025*
  - **Relevant Coursework**: Data Structures, Operating Systems, Networking, AI/ML, Database Systems, Software Engineering
  - **Summary**: Graduating with practical experience in full-stack web development, machine learning, and cloud-based tools.

TECHNICAL SKILLS

- **Languages**: Python, C, PHP, SQL
- **Web Dev**: HTML, CSS, JavaScript, PHP, Bootstrap
- **Frameworks**: PyTorch, XGBoost, OpenCV
- **Tools**: Git, VS Code, MySQL, SQLite, Windows, Linux
- **Other**: AI/ML, TTS, Debugging

EXPERIENCE

- **IOCL – Indian Oil Corporation Ltd** — Guwahati, India
  Intern – Inventory Automation — *December 2023 – January 2024*
  - **QR-Based System**: Developed a QR-based inventory system reducing stock mismatches by 30%.
  - **Process Improvement**: Digitized manual tracking processes; improved operational efficiency.
- **AMTRON (Assam Electronics Dev. Corp.)** — Guwahati, India
  Backend Intern – E-Governance Projects — *August 2024*
  - **API Integration**: Integrated REST APIs in 2 government applications; contributed to smoother backend logic.
  - **Testing and Debugging**: Collaborated in QA cycles and resolved 20+ bugs.
- **APDCL – Assam Power Distribution Co. Ltd** — Guwahati, India
  Telecom Intern – PBX System Study — *December 2024 – January 2025*
  - **PBX Optimization**: Analyzed internal call routing system; reduced call resolution time by 15%.
  - **Report Compilation**: Documented system workflow for future IT planning.

PROJECTS

- **AI Translation Chatbot**: Seq2Seq + Attention model in PyTorch to translate English–Assamese/Bodo with 95%+ accuracy. Includes TTS and browser UI. [GitHub-bilingual-translator-ai]
- **Real-Time Automated Person Detection And Alert System**: Developed a real-time surveillance system using YOLO for face detection and DeepFace for facial recognition; achieved 90%+ match accuracy to identify missing/wanted individuals and trigger instant alerts. [GitHub-Real-Time Automated Person Detection And Alert System]
- **MediShop – E-Pharmacy**: Responsive pharmacy site using HTML/CSS/JS/PHP with cart, product listing, and checkout flow. [GitHub-MediShop]
- **Sivcon Commercial Site**: SEO-optimized client website with 90+ PageSpeed. Built for live commercial use. sivcon.in, [GitHub-sivcon]
- **NYC Taxi Fare Predictor**: Trained XGBoost on 50k+ rows; achieved RMSE = 3.2, $R^2 = 0.84$. [GitHub-NYC Taxi Fare]
- **Shopping Mall Management System**: VB.NET + SQL billing app with secure access and support for 1000+ product records. [GitHub-SMMS]
- **Vaccine Uptake Predictor**: Built ML models (XGBoost + CatBoost) for vaccine classification with 82% ROC-AUC. [GitHub-Vaccine prediction]

CERTIFICATIONS

- **Python Programming**: Internshala
- **Artificial Intelligence**: YHills (2-month internship)
- **C Programming**: Great Learning
- **Blockchain Seminar**: Skill-Lync Workshop
- **Generative AI with ChatGPT**: Udemy

ACTIVITIES

- **Seminar**: Attended IITG Semiconductor Workshop
- **Cultural**: Performed in inter-college dance, modeling, and acting events