SMRITA PANDEY

Computer Science (BS) — Founder & CEO — AI, GRC, Fullstack Developer

📞 +91 8840592989   ✉ smrita.official@gmail.com   🔗 linkedin.com/in/smrita-pandey-9439a2235/
github.com/SmritaPandey
neurqai.com — thenbatech.com — qsgrc.com

Professional Summary

Founder and applied researcher with a B.S. in Computer Science, combining production-grade software engineering with applied AI and security. Experienced in conceiving, prototyping, and deploying enterprise systems (GRC, ITAM, DLP, SIEM), large-scale document intelligence (OCR) pipelines, and e-commerce platforms for public institutions. My work connects research questions (privacy-preserving auditing, document intelligence, scalable ML pipelines) to operational deployments across healthcare, education, and government, emphasizing traceability, regulatory alignment (DPDP), and measurable impact.

Experience

NeurQ AI Labs Private Limited   **Sep. 2024 – Present**
Founder & CEO   *India*

- Founded an AI research and product company focusing on Governance, Risk & Compliance (QS-GRC) and enterprise security tools.
- Architected and led development of **QS-GRC**, an integrated platform with modular IT Asset Management (ITAM), Patch Management, Data Loss Prevention (DLP), SIEM-style monitoring, PII scanning, and DPDP Act compliance workflows—designed for both on-prem and SaaS deployment.
- Piloted QS-GRC with healthcare and public-sector stakeholders; pilot evaluations indicated substantial reductions in manual audit effort and improved traceability.
- Led product presentations and stakeholder workshops (IIIT Lucknow, UPCLDF, UPBOCW, IIA) and co-hosted a Delhi forum with 15+ hospital CISOs/CIOs on DPDP readiness and hospital data governance.

NBATech LLC (USA & India)   **Jan. 2024 – Present**
Founder & Director   *USA & India*

- Established a cross-border software agency delivering enterprise, fintech, and GovTech solutions with a distributed development model.
- Led development and deployment of multiple production systems including:
- **ORMS (Online Revenue Monitoring System)** — mobile app for revenue collectors; deployed for Uttar Pradesh region (population ∼240M) to integrate payment gateways with field collection workflows.
- **Arth Pay Merchant App** — QR-based UPI merchant solution; integrated 7,479 PACs and 15,000+ merchant app installs.
- **Apna Agri Store** — farmer-oriented e-commerce/marketplace (vendor + buyer flows; payment integration); supported onboarding of 500+ farmers.
- Institutional platforms: NITTTR Hostel Management System, CRM for BookMyFlower, and multiple corporate website/CMS projects.
- Managed client relationships, product roadmaps, and a cross-functional team (UI/UX, backend, DevOps), using Git/Jira workflows.

Modular Open Source Identity Platform (MOSIP)   **Mar. 2025 – Aug. 2025**
Software Developer Intern — Web (Inji App)   *Remote*

- Contributed to an open-source digital identity stack supported by the Gates Foundation and used by 30+ countries; focused on authentication flows and secure wallet features using Java and React.
- Applied scalable frontend and backend patterns within a mission-driven codebase, emphasizing security and privacy.

Naralytics (Emotional Intelligence App)   **May 2024 – Dec. 2024**
React Native Developer   *Tempe, AZ*

- Led a redesign and feature expansion of a human-centered AI content platform; improved engagement metrics (retention + session length) through data-informed UX and real-time media pipelines using Firebase.
- Implemented content interaction systems (likes, saves, sharing) and scaled real-time features for thousands of monthly active users.

BDO India LLP Jun. 2023

Cybersecurity Intern — Risk & Advisory *Mumbai, India*

Executed vulnerability assessments and penetration tests using Kali Linux; translated technical findings into risk reports for stakeholders.

Innovador Infotech Jun. 2023 – Jul. 2023

VAPT Trainee *Noida, India*

Assisted in security audits of government web portals and internal systems; improved practical threat-modeling skills.

QNu Labs Pvt. Ltd. May 2023 – Aug. 2023

Project Intern — Cryptography & Security *Remote*

Supported cryptography-related projects and research under senior mentors; assisted in secure-protocol validation and implementation tasks.

Selected Projects

OCR-Powered Student Record Digitization (SRCC) 2024

Developed a hybrid OCR pipeline (Tesseract, TrOCR, CRAFT, Google Vision, Azure Document AI) and backend APIs (FastAPI) to extract structured fields from handwritten admission forms.

Processed and digitized **50,000+ student forms** with **95% field extraction accuracy** in production workflows; reduced manual entry time from 18 months to 3 months and saved estimated institutional costs.

Implemented role-based dashboards and audit trails for administrative workflows, enabling search and longitudinal student tracking.

QS-GRC — Integrated Governance, Risk & Compliance Platform 2024 – Present

Designed a modular GRC product suite combining ITAM, DLP, patch management, risk scoring, SIEM-like alerts, and DPDP-aligned compliance features.

Piloted automated audit workflows with partner institutions, reporting up to **90% reduction** in manual compliance effort during pilot runs (audit preparation and evidence collection).

Tech stack: FastAPI microservices, PostgreSQL, React/Next.js dashboard, RBAC, Dockerized deployments; focused on explainability and forensic traceability.

Apna Agri Store — Farmer Marketplace Sep. 2024

Built a MERN-based marketplace with inventory and transaction systems, onboarding **500+ farmers** and integrating payment rails and SMS notifications.

Implemented inventory reconciliation, UPI/Stripe payments, and basic price-forecasting models to support farmer decision-making.

Enkay Enviro — Enterprise CMS & Client Portal 2023

Solo-developed a customizable CMS and client portal for a large environmental consultancy (30+ years, 1000+ projects); enabled role-based access, media library, and project documentation workflows.

Delivered v2.0 production deployment with continuous uptime and reduced content-update latency by 70%.

ORMS, Arth Pay, and GovTech Apps (NBATech suite) 2022 – Present

ORMS: Mobile revenue monitoring and collector app integrated with payment gateways for statewide collections (UP deployment context).

Arth Pay: Merchant QR-payment app with **7,479 PACs onboarded** and **15,000+** installs; supports merchants with UPI-based transactions and reconciliation features.

S3 Farmer App and Arbh (Anganwadi) App: in-development platforms focused on farmer services and child health monitoring (IoT/LiDAR integration), respectively.

Intel Data Center Energy Optimization Oct. 2024 – Nov. 2024

Analyzed **1TB+** of energy telemetry using Python, SQL and Tableau; identified optimization opportunities with a projected **15%** cost reduction for targeted sites.

Additional Projects

Babble — 3D Language Learning (Unity)   **Feb. 2024 – Apr. 2024**
Built a gamified environment for language practice with adaptive tasks; achieved strong user feedback from beta testing.

EffortLogger — Productivity Tool (Java, SCRUM)   **Mar. 2023 – Apr. 2023**
Led a short sprint to design and deliver a productivity logging app used in team testing; improved task-tracking visibility.

FastKitchen / NBA Analytics / Robotics   **Various**
Multiple analytics and engineering projects demonstrating data analysis, visualization and hardware design skills.

Technical Skills

Programming: Python, JavaScript/TypeScript, Java, SQL, C#, C/C++, Bash

Frameworks & ML: FastAPI, React / Next.js, Node.js, React Native, TrOCR, Tesseract, CRAFT, Hugging Face

Data & Visualization: Pandas, NumPy, Tableau, Matplotlib, SQL-based ETL

Security & Compliance: GRC design, ITAM, DLP concepts, SIEM integration, VAPT methodologies, DPDP Act awareness

Datastores & DevOps: PostgreSQL, MongoDB, SQLite, Docker, Vercel, Azure AI services

Education

Arizona State University   **Jan. 2021 – Dec. 2024**
Bachelor of Science in Computer Science   *Tempe, AZ*
GPA: 3.2 — Dean's List (Spring 2021)

Relevant coursework: CSE 434 Computer Networks, HSE 324 Applied Cognitive Science, CPI 462 Dsgn for Lrning in Vrtual Wrld, CSE 445 Distributed Software Developmt, CSE 475 Found of Machine Learning, FSE 301 Entrepreneur Value Creation, CSE 471 Intro Artificial Intelligence, CSE 472 Social Media Mining, FSE 294 Special Topics (Course Topic: Data Wrangling with SQL) and FSE 394 Special Topics (Course Topic: Data Analysis With Python), PAF 410 Building Leadership Skills

Research & Training

FIU FINDS Digital Forensics Center of Excellence — Summer Researcher *(Summer 2022)*. Conducted independent and guided research under Prof. Latesh Kumar (led by Prof. S. S. Iyengar) on botnet defense mechanisms, with a focus on *botnet-against-botnet* strategies. Studied how controlled defensive botnets, sinkholing, command-and-control disruption, and traffic redirection techniques can be used to infiltrate, neutralize, and dismantle malicious botnet infrastructures. Analyzed real-world botnet behavior, propagation patterns, and mitigation challenges from a digital forensics and cybersecurity perspective.

Global Tech Career Accelerator — Coding for Data *(Fall 2024)*. Intensive industry-aligned training in Python, SQL, data wrangling, exploratory analysis, and data storytelling and visualization for business and technology contexts.

Policy & Consulting

Designed policy inputs and technical recommendations for UPCLDF and participated in discussions with public bodies regarding DPDP implementation and digital governance.

Volunteer & Leadership

Gandhi Corner Association Representative   **Apr. 2018 – Feb. 2020**
La Martiniere Girls' College   *Lucknow, India*
Organized fundraising and outreach programs (Day of the Girl Child, community meals) and coordinated annual events.

Computer Club Member   **Apr. 2018 – Feb. 2020**
La Martiniere Girls' College   *Lucknow, India*
Contributed to interschool competitions, event logistics and outreach; led small teams for tech demos and quizzes.

Languages & Interests

Languages: English (Fluent), Hindi (Native), Japanese (N5 level).

Interests: Digital illustration, music (guitar), dance, cross-cultural studies, educational VR/AR systems.

Awards

Silver Prize — Inter-school Science-Art Competition (Welham Girls' School, Dehradun).

Dean's List — Arizona State University (Spring 2021).