

Nyasha Ojha

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Professional Summary

Data & Software Engineering student skilled in Python, Java, and SQL with experience building AI/ML models, data pipelines, and analytics solutions. Strong collaborator with global teams, focused on delivering data-driven business value. Passionate about applying analytics and AI technologies to solve complex client challenges in consulting environments.

Education

Bachelor of Technology in Computer Science and Engineering
VIT Bhopal University

Expected May 2026
CGPA: 8.17

Skills

- **Programming:** Python, Java, SQL (PostgreSQL, MySQL)
- **Tools & Frameworks:** Pandas, NumPy, Power BI, AWS, Excel
- **Cloud & DevOps:** AWS, CI/CD (GitHub Actions), Git (Version Control)
- **Software Engineering:** Object-Oriented Programming, Data Structures & Algorithms, APIs, Debugging
- **Professional Skills:** Problem Solving, Team Leadership, Stakeholder Communication
- **Languages:** English, Hindi, Telugu, Bengali, Spanish (A1)

Projects

Urban Planning Using Remote Sensing Imagery

Geospatial AI, Data Engineering, Analytics

- Led a 10-member cross-functional team to build scalable geospatial forecasting pipelines using 556+ multi-source satellite datasets for urban growth and land-use prediction.
- Engineered end-to-end Python and machine learning pipelines (visualizations feature extraction, spatial modeling), improving forecasting accuracy by ~20% and reducing manual geospatial processing time.
- Delivered data-driven reports, enabling policymakers to make informed decisions on zoning, infrastructure planning, and resource allocation.

CaseLawAI (US Local Chapter) - Omdena

AI/ML, NLP, LegalTech

- Developed and fine-tuned deep learning models (CNN, LSTM) to classify employment discrimination cases, increasing classification accuracy by 18% and reducing review time by 30%.
- Automated data preprocessing pipelines using AWS services and regex for 6,000+ legal case records, enhancing data quality and workflow efficiency.
- Collaborated globally with a 57-member team to enhance model performance and streamline AI reporting processes.

Doctor Appointment Booking Website

Full Stack Web Development, HealthTech

- Built to improve local healthcare accessibility by streamlining the appointment scheduling process for patients and clinics through a centralised online system.
- Collaborated in a 5-member team to architect and develop an end-to-end, user-friendly web platform with real-time booking, calendar sync, and patient-doctor management features to streamline user experience.
- Tech Stack: Python, Django, SQL, HTML, CSS, JavaScript, MySQL, Bootstrap, REST APIs.

Research & Leadership

- **Post-Quantum Blockchain Security (JDMSC, July 2025):** Co-authored a peer-reviewed paper on a hybrid lattice-based cryptographic algorithm integrating subset generation with SVP, enhancing quantum-resistant security and improving post-quantum blockchain efficiency.
- **Founder, Developer's Club:** Managed 27-member team, organized campus events for 200+ attendees, increased engagement by 40%.
- **Awards:** Merit scholarships (Class 10, 12), NCO/NSO qualifiers, debate team core member.

Interests

Certified drummer (3 years, Rock School of London), state level youth boxing participant, and an avid follower of Formula 1 racing