

PROFILE SUMMARY

Machine Learning and data professional with hands-on field experience driving technology adoption and education outcomes in Bokaro district, Jharkhand, under NITI Aayog's Aspirational Blocks Programme (ABP/GAVB) with Piramal Foundation's Gandhi Fellowship. On-ground experience training Mukhiyas on the SachivG app, conducting government-school reading assessments (FLN), and engaging Panchayat stakeholders — alongside building dashboards and predictive models (Power BI, Python, XGBoost, SHAP, Streamlit). Comfortable travelling and working in remote field locations; fluent in Hindi.

EXPERIENCE

Piramal Foundation — Gandhi Fellowship

Aug 2025 – Present

- Placed under NITI Aayog's Aspirational Blocks Programme (ABP/GAVB) in Bokaro district, Jharkhand, working at the block level across education, healthcare, governance, and rural development.
- Supported on-ground adoption of the [SachivG](#) app, training Mukhiyas and local stakeholders with limited tech exposure on its use for governance and administrative reporting.
- Conducted government school fieldwork: assessed Class 3–5 reading/learning levels (FLN), ran classroom learning activities, and engaged teachers and school staff to identify school-level issues.
- Engaged in Panchayat-level governance — Gram Sabha participation, coordination with Mukhiya and Ward Members, and community mobilisation events including Independence Day and Bokaro Sakhi Mahotsav 2026.
- Documented field visits, school assessments, and community engagements into structured reports to support data-driven block-level planning.

Machine Learning Intern — Uptricks Services Pvt. Ltd

June 2025 – Aug 2025

- Build and optimize predictive models using Python, Scikit-learn, and XGBoost, covering data preprocessing, EDA, feature engineering, and hyperparameter tuning.
- Apply explainable AI (SHAP) to interpret model predictions and deploy interactive ML applications using Streamlit.
- Document findings and collaborate with the team in an agile workflow on real-world datasets.

Freelance Python Developer (Part-time) — Fiverr

June 2022 – Apr 2024

- Delivered 13+ client projects across Python, Django, Flask, automation, and web development; recreated 4 major projects on GitHub, including a live authentication system.

PROJECTS

Education Resource Planning & Enrolment Analytics | *Power BI, DAX, Power Query, Python, Pandas, Feature Engineering*

- Developed an interactive 4-page Power BI dashboard to analyze school-level enrolment data across 2,121 schools and ~395K students.
- Analyzed block-wise enrolment, gender composition, school management, education-stage distribution, and average students per school.
- Performed feature engineering using Python/Pandas to create Active Class Count, Gender Gap, Absolute Gender Gap, School Size Category, and High-Enrolment Status.
- Built a weighted Priority Score and Planning Priority framework using selected school-level indicators to identify schools requiring relatively higher planning attention. The original dataset is confidential; the portfolio demonstrates the analytical approach using anonymized/sample data.
- Created interactive reports using DAX measures, KPI cards, slicers, drill-down tables, and data visualizations to support data-driven analysis.

House Price Prediction, Loan Prediction, EarlyStep & FinGenius.AI | *Python, XGBoost, SHAP, Streamlit, Flask, Django*

- [House Price Prediction](#) — end-to-end regression pipeline with feature engineering, hyperparameter tuning, and SHAP-based explainability.
- [Loan Prediction System](#) — end-to-end classification system for loan approval with a Streamlit interface.
- [EarlyStep](#) — AI-based health risk prediction web app; heart attack model achieved 85% accuracy.
- [FinGenius.AI](#) — multi-agent stock market query agent delivering 92% accurate real-time responses (DeepSeek, Phidata).

EDUCATION

B.Tech, Computer Science — Technocrats Institute of Technology, Bhopal

May 2025

SKILLS

Data & Reporting Tools: Power BI, DAX, Power Query, Excel, Google Sheets, Streamlit

Languages & Core: Python, SQL, Bash, HTML, CSS, Data Structures & Algorithms

ML & Data: Pandas, NumPy, Scikit-learn, XGBoost, SHAP, Matplotlib, Jupyter

Frameworks & Tools: Django, Flask, DRF, Git, Docker

Databases & Cloud: MongoDB, MySQL, AWS, Heroku, Vercel, PythonAnywhere, REST APIs

Languages Spoken: Hindi (fluent), English

ACTIVITIES & ACHIEVEMENTS

- Certified in [Python Programming](#) & Machine Learning (Great Learning) and Cybersecurity (Google via Coursera).
- [Campus Ambassador](#), GDG Bhopal & IIT Bombay TechFest; participant, Google DevFest (2022–24) and Google I/O (2023, 2024).
- [Certificate of Excellence](#), Unstop Engineering Series (Top 2.5k ranks); participant in Flipkart GRiD 6.0 & TATA Crucible Quiz.