

Tanishk Bhardwaj

AI/ML & Data Engineer | GenAI, Computer Vision, Analytics & Automation
Delhi NCR, India | Open to AI/ML, GenAI, Data Analytics & Automation Roles
tanishk.bhardwaj04@gmail.com | linkedin.com/in/tanishk004 | github.com/10ishk

PROFESSIONAL SUMMARY

Final-year Computer Science undergraduate with hands-on experience in applied AI, machine learning, GenAI workflows, computer vision, data analytics, and business automation across logistics, industrial systems, business optimization, and telecom. Built production-used AI/data automation at Safexpress, analyzed approximately **15k** BI Copilot conversations, developed Snowflake semantic-view foundations, and built predictive-maintenance ML pipelines on **100k+** real industrial telemetry records. Strong in Python, SQL, Power BI, machine learning, LLM workflows, OpenCV, YOLO, Snowflake, data validation, API-based automation, dashboarding, and stakeholder-facing technical communication. Interested in building practical AI/data products that reduce manual work, improve decisions, and turn messy business data into usable systems.

CORE SKILLS

AI/ML:	Python, pandas, NumPy, scikit-learn, XGBoost, TensorFlow, PyTorch, feature engineering, predictive modeling, model evaluation, anomaly detection
GenAI & LLMs:	Prompt engineering, LLM workflows, RAG concepts, AI copilots, semantic search, embeddings/vector database concepts, Snowflake Cortex
Computer Vision:	OpenCV, YOLO, image preprocessing, barcode decoding, object detection, ROI zones, RTSP/video analytics, event alerts
Data Analytics:	SQL, Power BI, DAX, Power Query, Advanced Excel, Snowflake, KPI reporting, dashboarding, data validation, EDA, business reporting
Backend & Tools:	FastAPI, Streamlit, REST APIs, MySQL, PostgreSQL/SQLite, Git/GitHub, Docker basics, API integration, documentation
Communication:	Stakeholder communication, requirements understanding, dashboard storytelling, public speaking, workshop facilitation, leadership

EXPERIENCE

Safexpress Pvt. Ltd. <i>Computer Vision Intern</i>	Feb 2026 – Present Location: Gurugram, India
- Built a lightweight Code 128 waybill barcode decoder integrated into an in-house Slack bot workflow, converting damaged/torn waybill images into barcode-linked shipment data and reducing manual lookup dependency. - Validated decoder on a confidential 1,000-sample production image test set, achieving 86.4% end-to-end resolution, 98%+ correctness on decoded outputs, and approximately 189 ms average image-processing time. - Designed image preprocessing, decoding, and data-retrieval logic for high-speed execution, low compute usage, and scalable branch/hub inspection workflows. - Analyzed approximately 15k historical BI Copilot conversations to identify repeated user intents, query failure points, business-question patterns, and prompt/caching/skill-routing improvement opportunities. - Built accepted Snowflake semantic-view foundations and Snowflake Cortex prompt-handling logic for role-aware sales, branch, shipment, finance, operations, and business-performance analytics. - Contributing to an ongoing computer-vision SOP compliance POC covering 18 confidential operational-compliance scenarios using RTSP feeds, ROI zones, evidence snapshots/clips, alert logic, and dashboard requirements.	
Bahrain Steel <i>Electrical & Instrumentation Intern</i>	Dec 2024 – Jan 2025 Location: Hidd, Bahrain
- Built a predictive-maintenance ML pipeline using 100k+ real telemetry records from approximately 200 sensors across 10 industrial motor systems to forecast maintenance timing from RPM, torque, vibration, temperature, and current signals. - Engineered rolling-window sensor features and benchmarked Random Forest against XGBoost, achieving MAE 0.0146 and RMSE 0.0680 on a normalized time-to-failure target; presented model findings to internal stakeholders.	
Foulath Holding <i>AI & Business Optimization Intern</i>	May 2024 – Aug 2024 Location: Al Hidd, Bahrain
- Developed an LLM-assisted internal analytics workflow to review confidential business data, flag suspicious patterns for team investigation, and generate structured reporting; internal estimates associated it with a 35% reduction in fraud/activity-risk indicators. - Built an ML-assisted prioritization workflow to surface 50+ network risk findings for review, contributing to a reported 15% improvement in incident triage and response time.	
Viacloud W.L.L. <i>Telecommunications Technology Intern</i>	Jan 2024 – Feb 2024 Location: Manama, Bahrain
Assisted telecom engineering teams in reviewing logs, diagnostics, and module-level performance indicators across 5+ systems, contributing to bottleneck identification and resolution of 10+ technical issues.	

SELECTED PROJECTS

Agentic AI Assistant & RAG Knowledge System	<i>Python, LangChain/LlamaIndex, FAISS/Chroma, FastAPI, Streamlit</i>
Built an AI assistant prototype with document ingestion, chunking, embeddings, vector search, retrieval-augmented answers, prompt templates, tool-calling concepts, conversation memory, and a user-facing API/UI workflow.	
Predictive Maintenance & Sensor Anomaly Detection	<i>Python, pandas, scikit-learn, XGBoost, Time-Series Features</i>
Built an ML workflow for industrial telemetry using rolling-window features, anomaly flags, regression/classification experiments, error analysis, and business-facing maintenance-risk interpretation.	
Computer Vision SOP Monitoring System GitHub	<i>YOLO, OpenCV, RTSP/Video Analytics, Streamlit</i>
Built a computer-vision monitoring POC using object detection, ROI zones, timestamped event logs, evidence snapshots, alert dashboards, and rule-based activity monitoring for operational environments.	
Business KPI & Operations Analytics Dashboard GitHub	<i>Power BI, SQL, DAX, Power Query, Python</i>
Built an analytics dashboard on 2k+ synthetic business/operations records, tracking revenue-at-risk, SLA breaches, delay reasons, branch performance, route efficiency, delivery exceptions, trend analysis, and executive KPI views.	

EDUCATION, LEADERSHIP & CERTIFICATIONS

Indian Institute of Information Technology, Sonapat – B.Tech in Computer Science & Engineering, Expected Aug 2026
New Millennium School DPS, Bahrain – Schooling, Grades 1–12, Kingdom of Bahrain
Leadership & Communication: GDG IIIT Sonapat Club Lead and E-Cell Lead; led a 200+ member developer community, mentored juniors, and organized 15+ workshops/events for 500+ participants; MUN awardee, RJ Junior of Bahrain, World Scholar's Cup participant, and public-speaking award winner.
Certifications: OCI 2025 GenAI Professional | IBM ML with Python | TensorFlow Developer | Google Data Analytics | Deloitte Data Analytics Simulation | AWS Cloud Foundations