TEJAS PANCHBHAI

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SUMMARY

Python Test Automation | QA & Release Testing | Power BI | Snowflake SQL
AI Engineer at Datakernels Analytics working on test automation, release QA for a production operations portal (Ops UI), Power BI reporting, and Snowflake SQL. B.Tech in Artificial Intelligence and Machine Learning (2026).

EXPERIENCE

Datakernels Analytics and Consulting LLP April 2026 – Present
AI Engineer

- **Ops UI (Team Project):** Contributed to a team-built operations portal for medical report processing (Python backend, TypeScript frontend, PostgreSQL), released to Production as v1.0.0 in May 2026.
- Maintained Stage and Production test case reports covering 150+ test cases mapped to 157 features, tracking pass/fail status, severity, and defect resolution before each release.
- Ran the release test matrix (pytest, Vitest, Playwright E2E and visual tests, linting, type-checks, dependency audits) and produced test results reports, release notes, and the user manual.
- **Test Automation:** Developed a Python and Playwright suite for end-to-end UI testing of application workflows, covering functional and regression test cases across multiple scenarios.
- Automated test execution with configurable Case IDs and Dev, Stage, and Production environments, plus result tracking, screenshot capture, and report generation for defect analysis.
- **BI & Reporting:** Developed and maintained interactive Power BI dashboards for business reporting and analysis using DAX, Power Query, and data modeling.
- **Snowflake & Data Prep:** Wrote Snowflake SQL to extract, transform, and validate reporting data, troubleshot reporting data issues, and worked on the company's DataPrep pipeline.
- **Internal Tools:** Developed a task tracker UI to support internal company workflows.

SKILLS

Programming: Python, SQL, JavaScript, HTML, CSS, OOP, REST APIs
Testing & QA: Playwright (Python), UI and End-to-End Testing, Functional, Regression and Visual Testing, Manual Testing, Test Case Management, Release Testing
Data Analytics & BI: Power BI, DAX, Power Query, Data Modeling, Data Visualization, Data Validation, Excel
Databases & Cloud: Snowflake, MySQL, SQLite, MongoDB, AWS Services
Machine Learning: Random Forest, Linear Regression, Feature Engineering, Recommendation Systems
Tools & Automation: n8n, FastAPI, Flask, Streamlit, Ollama, Git, GitHub
Languages: English (Professional), Marathi, Hindi (Native)

PROJECTS

Gem Valuator — ML Price Prediction System

- Built Random Forest and Linear Regression models to predict gemstone prices with improved accuracy, using feature engineering, preprocessing, and outlier handling, with an interactive visualization interface for real-time predictions.

Personalized AI Recommendation Engine (Real-Time System)

- Developed a hybrid recommendation engine combining collaborative filtering, content-based filtering, and embedding-based models.
- Built an event-driven pipeline that tracks user interactions and updates recommendations with low latency, using ranking optimization and feedback loops (clicks, likes/dislikes) to improve relevance.

EDUCATION

R C Patel Institute of Technology, Shirpur 2022 – 2026
B.Tech in Artificial Intelligence and Machine Learning | CGPA: 7.61/10

CERTIFICATIONS

AWS with Python — Symbiosis University | SQL and Relational Databases — IBM | Data Structures and Algorithms — CodeChef