

Priyansh Kumar

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SUMMARY

Backend developer with a foundation in Python, Flask, and Node.js, focused on writing systems that are clean enough to maintain and tested enough to trust. Built a multi-layer behavioral engine with 98 unit and integration tests, enforcing strict separation between signal extraction, pattern detection, and state management. Comfortable owning a problem end-to-end — from data model to deployed application. Pursuing BCA at Starex University (2027), actively seeking backend internships where engineering quality matters.

TECHNICAL SKILLS

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|----------------------------|--|
| Languages: | Python, JavaScript, C, C++ |
| Backend & APIs: | Flask, FastAPI, Node.js, Express.js, RESTful API design, session management, CSRF protection |
| Databases: | SQLite, MySQL — schema design, persistence, state reconstruction |
| Testing: | Pytest — unit, integration, and isolation testing (98 tests across 10 files, layered architecture) |
| Cloud: | Microsoft Azure, Oracle Cloud Infrastructure |
| Tools: | Git, GitHub, Postman, VS Code, Power Query, Pivot Tables, Excel Dashboards |

EXPERIENCE

Summer Intern — Advanced Excel (InsightX) | *SKLZ TECT LLP, Gurugram* Jun 2025 – Jul 2025

- Analyzed **98,603 transaction rows** across multiple fiscal years using Power Query and pivot tables to identify a **\$6,420 order-to-sales discrepancy** across product lines and regions
- Built a **6-sheet interactive Excel dashboard** with slicers, linked KPIs, and conditional formatting to surface top customers, regional performance, and highest-discrepancy product lines
- Cleaned and analyzed **10,194 sales records** across 4 regions and 15 SKUs, producing a **3-dashboard workbook** with 12 charts — Pacific top region, Wonka Bar–Triple Dazzle Caramel top SKU at \$28,485
- Flagged negative gross profit on high-demand SKUs and zero-sales in the Atlantic region, surfacing **pricing inefficiencies** for strategic review

PROJECTS

Argeia — Behavioral Procrastination Tracker *Python · Flask · SQLite · Pytest · Flask-WTF · Jinja2*

- Designed a **5-layer behavioral pipeline** (signals → windows → pattern detection → behavior evaluation → state engine) modeling long-term engagement across 4 progressive states: Stable, Drifting, Strained, Disengaged
- Wrote **98 unit and integration tests** across 10 test files covering signal extraction, pattern detection, state transitions, and restart recovery — zero coupling between layers
- Built a Flask web interface with **CSRF protection**, Jinja2 templates, and SQLite persistence with complete state reconstruction on restart

Multiuser File Safe *Node.js · Express · bcrypt · Multer*

- Built full-stack file storage with **bcrypt authentication**, session handling, and Multer — each user's files isolated in a private server-side folder; deployed live on Render

EchoSort — Desktop Photo Organizer *Python · Tkinter · Pillow · PyInstaller*

- Automated photo organization into date-stamped folders using Pillow; packaged as a **standalone Windows .exe** via PyInstaller with Tkinter GUI and operation logging — zero Python installation required

EDUCATION

Bachelor of Computer Applications — Computer Science | *Starex University, Gurugram* Sep 2024 – Aug 2027

CERTIFICATIONS

- Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate
- Azure Insights: Data and Cloud Foundation — SKLZ TECT LLP (Microsoft Partner)
- Gen AI 101 — FutureSkills Prime, IT-ITeS SSC Nasscom