

RAJ KHAN

Data Analyst | Python Developer

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PROFESSIONAL SUMMARY

Data Analyst and Python Developer with hands-on experience across SQL, Python, Tableau, and Power BI, and full-stack development in Flask and PostgreSQL. Built a production-style, role-based web application from scratch — 2,800+ lines of backend Python across 5 Blueprints with full RBAC and transactional booking logic. Currently pursuing a B.Sc. in Programming and Data Science from IIT Madras. Comfortable across the full data lifecycle — cleaning, EDA, and dashboarding.

SKILLS

Backend: Python, Flask, FastAPI, SQLAlchemy (ORM), Flask-Login, RESTful Routing, REST APIs

Frontend: JavaScript, HTML5, CSS3, Bootstrap 5.3, Jinja2

Database: PostgreSQL, SQLite, SQL, Relational Schema Design & Normalization

Tools & DevOps: Git, Linux, Bash, Pytest, Unittest, Jupyter, VS Code, Antigravity IDE

Data Analytics & BI: Pandas, NumPy, Matplotlib, Seaborn, Power BI, Tableau, Advanced Excel, Google Sheets, Data Cleaning, Exploratory Data Analysis (EDA), Descriptive & Inferential Statistics

Practices & Other: Application Architecture (MVC / Blueprint Pattern), Role-Based Access Control (RBAC), AI-Assisted Development (Prompt Engineering — ChatGPT, Claude, Gemini), Technical Documentation

PROFESSIONAL EXPERIENCE

Tata — GenAI Powered Data Analytics Job Simulation (Forage)

February 2026

- Evaluated data quality and delinquency risk indicators for a financial services dataset using GenAI tools.
- Built a no-code predictive model framework for delinquency risk, defining logic and evaluation criteria.
- Proposed an AI-driven collections strategy using agentic automation and regulatory compliance principles.

Deloitte Australia — Data Analytics Job Simulation (Forage)

February 2026

- Performed forensic analysis on transactional data to detect anomalies and surface business insights.
- Built an interactive Tableau dashboard to visualize findings for stakeholder decision-making.
- Applied Excel-based classification and analysis techniques to support data-driven recommendations.

PROJECTS

Trekking Management Application

June 2026 – July 2026

Python, Flask, SQLAlchemy, SQLite, Flask-Login, Werkzeug, Jinja2, Bootstrap 5

- Designed and built a full-stack web application for 3 distinct user roles (Admin, Staff, User) using Flask, SQLAlchemy ORM, and Bootstrap 5, structured across 5 independent Blueprints via the application factory pattern.
- Engineered a transactional slot-booking system across 4 relational models (User, StaffProfile, Trek, Booking), guaranteeing zero overbooking and accurate slot restoration on every cancellation.
- Implemented a seven-state trek lifecycle and role-based access control (RBAC) across three account types, enforcing cascading integrity rules such as automatic staff unassignment on blacklisting and non-destructive, audit-preserving booking cancellation.
- Built multi-field search and filter querying (SQLAlchemy) across all 4 core entities (treks, staff, users, bookings), scoped per role for targeted, secure data access.
- Authored ~2,800 lines of backend Python and 27 role-scoped templates (~4,250 lines of Jinja2/HTML), including a seeding harness generating realistic demo data (24 users, 10 staff, 18 treks) across all lifecycle states.

EDUCATION

B.Sc. in Programming and Data Science

2023 — Ongoing

Indian Institute of Technology Madras (Online Degree Program)

- Completed Diploma in Programming, a foundational credential within the BS curriculum.

Higher Secondary (12th Grade)

West Bengal Council of Higher Secondary Education — Percentage: 86.40%