

KARANDEEP SINGH TALWAR

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PROFESSIONAL SUMMARY

Data and product analyst who builds analytics systems, SQL data backends, and GenAI automation tools end to end. Hands-on with Python, SQL, Power BI, and MS SQL Server, plus LLM and RAG-based systems, predictive modeling, and workflow automation. Comfortable turning business and product requirements into working data and AI solutions, and collaborating across product, engineering, and business teams to ship them.

EDUCATION

Guru Tegh Bahadur Institute of Technology

Bachelor of Technology in Computer Science

New Delhi

Nov 2022 – Aug 2026

Khaitan Public School

Higher Secondary (Science with Economics)

Ghaziabad

July 2022

TECHNICAL SKILLS

Languages: Python, SQL, JavaScript, HTML, CSS

Databases: MS SQL Server, MongoDB, Firebase, Neon, Supabase, Vector Databases (Qdrant)

Analytics & BI: Power BI, Tableau, Excel, Jupyter, Exploratory Data Analysis (EDA), Statistical Analysis, Predictive Modeling

Cloud & Data: AWS (Amazon Bedrock), Backend Data Architecture, ETL, Data Warehousing, APIs

AI & LLM: LLM-based Systems, Retrieval-Augmented Generation (RAG), Prompt Engineering, Agentic / Multi-Agent Systems, Model Evaluation & Validation, Workflow Automation

Libraries & Frameworks: Pandas, NumPy, scikit-learn, Flask, FastAPI, ASP.NET

Tools & Monitoring: Git, Grafana, VS Code, MS Visio

EXPERIENCE

Analytics Engineer

Sept 2025 – Present

PockIT Engineers

Noida

- Built an MS SQL Server backend from scratch for a SaaS product, with normalized schemas, relational tables, constraints, indexes, and stored procedures, which improved data integrity and reduced redundancy in production querying.
- Developed ASP.NET APIs over SQL Server stored procedures, turning complex database logic into reusable, frontend-ready services for production workflows.
- Built dashboards and KPI frameworks that improved reporting accuracy and reduced operational errors in day-to-day decision-making.
- Translated business requirements and user feedback into data-backed technical solutions, working with product, business, and engineering teams to ship continuous product improvements.

Data Analyst

July 2025 – Present

Ovation Workplace Services

Remote

- Built an automated pre-invoice engine that calculates technician billing across dedicated, dispatch, and project/T&M work types, encoding SLA band tiers, backfill coverage, overtime and weekend rate splits, and public holiday rules, and reconciles output against a source-of-truth template to remove manual billing effort and errors.
- Built a Power BI profitability dashboard with multi-year financial trend analysis and multi-tier drill-down, using data restructuring and feature engineering to support executive decisions.
- Built a Power BI payment-delay dashboard with time-band analysis that surfaced real-time metrics to prioritize collections, improve cash flow, and reduce financial risk.
- Engineered an LLM-powered HR onboarding chatbot using RAG on Amazon Bedrock, centralizing documentation and returning instant answers that cut HR administrative workload.

Freelance AI Automation Engineer

Nov 2025 – Dec 2025

Independent Contractor

Remote

- Built a Chrome Extension (Manifest V3) in JavaScript for dynamic DOM scraping, structured data extraction, and real-time validation from highly dynamic web pages.
- Integrated OpenAI API validation pipelines with secure client-side key management for automated data verification, correction, and confidence scoring, removing manual QA while keeping data private.

- Engineered adaptive rate-limit handling with asynchronous parallel processing and caching, reaching 2× throughput and reliable processing of 1,500 records/day without session lockouts.
- Built a monitoring dashboard and automated CSV reporting pipeline enriched with AI validation metadata, delivering audit-ready analytics outputs at 0.50 USD per 1,500 records.

Data Analyst Intern

Mar 2025 – May 2025

Heimatverse

New Delhi

- Ran the end-to-end data lifecycle of cleaning, validation, transformation, and visualization to resolve inconsistencies and deliver KPI dashboards and trend insights for stakeholders.
- Researched AI-IoT smart electrical devices, evaluating their impact on energy optimization, resource efficiency, and carbon-footprint reduction in smart-city frameworks.

PROJECTS

Selected Applied Data Science and Analytics Projects

Forage 2024

- Delivered analytics and BI workflows for simulated enterprise cases (British Airways, Commonwealth Bank, PwC) using predictive modeling, sentiment analysis, ETL pipelines, and executive-level dashboards.

LEADERSHIP

President | Et-Cetera, The Dramatics Society of GTBIT

- Directed national-level productions, overseeing scriptwriting, production, and stage management, and managed the society's social media presence.

Canteen Committee Head | Guru Tegh Bahadur Institute of Technology

- Led price rationalization initiatives and facility enhancements.