Smith Bhavsar

Gen AI Data Scientist

As a Gen AI Engineer with 4.5 years of experience at TCS, I specialize in building intelligent, scalable solutions powered by cloud platforms and Databricks. My expertise spans advanced SQL, data management, and the development of AI-driven conversational agents using LLMs. With a strong foundation in data engineering, I focus on delivering machine learning and generative AI applications that transform business processes, unlock actionable insights, and elevate user experiences.

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EDUCATION

M.TECH Data Science (2023-2025)

WILP - Bits Pilani
CGPA - 8.0

B.E Information technology(2016-2020)

Silveroak College of Engineering And Technology
CGPA - 8.80

PROFESSIONAL EXPERIENCE

Tata Consultancy Services (TCS) -NOV,2020 - Now   Nov 2020- Present

Gen AI Data Scientist

AI-Driven Insights & Predictive Modeling:
- Proficient in developing Python-based chatbot solutions backed by robust data foundations and dictionaries, enabling intelligent, personalized conversational interfaces. Skilled at transforming business needs into ML models and actionable insights.

Full-Stack Data Science Solutions:
- Built scalable applications by integrating React frontends with AWS services (Lambda, DynamoDB). Used React + Redux for efficient state management and interactive visualizations.

Machine Learning & Statistical Analysis:
- Designed and deployed ML pipelines on Databricks and AWS using regression, classification, clustering, and time series techniques. Strong in preprocessing, feature engineering, and model evaluation for meaningful predictions.

CI/CD for Data Science Workflows:
- Established automated pipelines for model deployment and retraining, enabling fast iterations and reproducible MLOps workflows.

Databricks & AWS Infrastructure Expertise:
- Connected Databricks with AWS (via Terraform/CDK) for seamless infrastructure and job orchestration. Optimized a Redshift-to-Databricks data pipeline (500M+ rows, 20GB) to reduce load time from 7 hours to 10 minutes, achieving over 98% improvement.

Advanced SQL & Data Management:
- Built efficient data pipelines and executed complex SQL on large Redshift and Databricks datasets. Improved query performance via strategic data partitioning and reusable query logic aligned to diverse client analytics needs.

PROJECTS

AI-Driven Food Menu Application - Chatpata AI

Data Science & AI Highlights:
- Designed and deployed AI-driven recommendation models to suggest dishes based on user preferences, order history, and restaurant-specific trends.
- Implemented algorithms for personalized food recommendations, leveraging collaborative filtering and rule-based logic using real-time customer data.
- Engineered data pipelines for collecting and storing behavioral data from menu interactions and orders, enabling future model training and analytics.

Product & Engineering Responsibilities:
- Led end-to-end development of a multi-role SaaS platform for restaurants, incorporating AI insights into the customer experience.
- Built role-based admin panels:
  - Super Admin: Managed SaaS clients, restaurants, and centralized analytics.
  - Restaurant Admin: Oversaw menu management, live order tracking, and customer insights.
- Developed a real-time order tracking dashboard using WebSockets for live updates visible to both users and waiters.
- Deployed production-ready applications on Netlify (frontend) and Railway (backend); used Supabase for authentication and cloud-native data storage.
- Prioritized mobile-first UI/UX to streamline the in-restaurant experience, with intuitive navigation and real-time feedback mechanisms.

SKILLS

- Languages: Python, SQL, TypeScript
- Frontend: React.js, Next.js, Tailwind CSS
- Backend: FastAPI, Flask, Node.js
- Cloud & Data: AWS (Lambda, Kinesis, S3, Glue, SageMaker), Snowflake, Databricks
- AI/ML & NLP: TensorFlow, PyTorch, NLP, AI-driven Recommendations
- Analytics & BI: Tableau, Power BI
- DevOps: Terraform, GitHub Actions, Docker, Kubernetes
- Databases: PostgreSQL, Supabase, Redis

CERTIFICATIONS

- Microsoft Certified: Azure Developer Associate
- SQL (Advance) Skills Certification
- Get Started with Databricks for data engineering