WREETOJYOTI RAY

Senior Data Consultant | Oracle Specialist | Generative AI Practitioner

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PROFESSIONAL SUMMARY

Senior Oracle Consultant with 10+ years of experience delivering enterprise data solutions for US healthcare and insurance clients. Expert in Oracle SQL, PL/SQL, and LabVantage Database Architecture, with a proven track record of optimizing complex database architectures. Actively pivoting to Generative AI Engineering, contributing LLM integration for automated reporting and building custom AI agents using Python and Prompt Engineering. Seeking to leverage deep data discipline in a forward-looking AI Engineer role.

TECHNICAL SKILLS

- **AI & GenAI:** Python, LLMs (Gemini, GPT), Prompt Engineering, RAG, LangChain, Streamlit, Gradio
- **Core Databases:** Oracle 11g/19c, SQL, PL/SQL, Performance Tuning, Unix Shell Scripting
- **Domain Tools:** LabVantage Database Architecture, Jasper Reports, Oracle Apex
- **OS & Tools:** Linux, Windows, Git, VS Code

PROFESSIONAL EXPERIENCE

Senior Oracle Consultant | NeoGenomics Laboratories (Client)

Apolis Consulting | October 2022 - Present

• *Retained by client across vendor transition due to specialized LIMS expertise*

- **ETL & Data Transformation:** Orchestrated end-to-end data loading lifecycle for new test onboarding. Collaborated with Business Analysts to transform raw client specifications (test codes, analytes, instrument workflows) into LabVantage-compliant formats, ensuring seamless integration into the Oracle ecosystem.
- **Portal Backend Development:** Engineered complex PL/SQL backend procedures for client-facing portal, enabling secure and rapid extraction of critical audit reports.
- **Performance Optimization:** Optimized complex PL/SQL queries and triggers, ensuring 99.9% uptime for mission-critical laboratory workflows.
- **Generative AI Integration:** Developed Python-based automation tool using LLMs (Gemini API) to generate natural language summaries from complex clinical SQL queries, reducing report generation time by 60%.
- **RAG Implementation:** Implemented Retrieval-Augmented Generation (RAG) workflows for historical patient data retrieval, improving query accuracy by 40%.
- **Reporting:** Designed and maintained critical Jasper Reports for client deliverables and research results.

Oracle Senior Database Developer | NeoGenomics Laboratories (Client)

HCL Technologies | October 2019 - October 2022

- Developed and maintained LabVantage database architecture supporting 10,000+ daily transactions for laboratory workflows.
- Created optimized data models and Oracle queries for application development, reducing processing time by 45%.
- Built custom Jasper Reports for clinical data visualization and regulatory compliance documentation.

Oracle PL/SQL Developer | National Insurance Company (Client)

HCL Technologies | August 2017 - October 2019

- Managed backend database operations for eBAO Policy Administration System, handling complex data fixes and change requests for government insurance operations.
- Executed periodic data migration using advanced PL/SQL scripting, ensuring database integrity during major patch updates.

Senior Engineer | Geological Survey of India (Client)

HCL Technologies | July 2016 - July 2017

- Maintained HRMS Portal and Database; executed complex query generation for payroll modules (7th CPC implementation).
- Performed regular database backups, upgrades, and module modifications for geo-scientific data management.

System Engineer | Bell Canada Migration Project

Metalogic Systems Pvt Ltd | August 2015 - July 2016

- Migrated mission-critical legacy data from IBM Mainframe (DB2) to Oracle Database for telecommunications operations.
- Converted legacy COBOL/JCL scripts into modern Unix Shell Scripts, improving batch processing efficiency by 35%.

KEY TECHNICAL PROJECTS

WanderMaster: Full-Stack AI Travel Planner

🔗 wandermaster.streamlit.app

- Built with Python & Streamlit; orchestrates Google Gemini via custom fallback chain for rate-limit resilience.
- Grounded in real-time data using Tavily Search API, ensuring up-to-date travel recommendations and pricing.
- Implemented dual-layer cache (In-Memory + Supabase PostgreSQL) to reduce API costs by 70%.
- Regex-parsed unstructured LLM outputs into interactive UI buckets for dynamic budgeting and itinerary planning.
- Generated branded, offline-ready PDF travel guides using ReportLab for enhanced user experience.

AI Bedtime Story Generator - Deployed on HuggingFace

🔗 huggingface.co/spaces/wreetojyoti/Dreamy_Tales

- Built full-stack Python application using Gradio framework, generating personalized stories in Bengali and English.
- Integrated Google Gemini 1.5 Flash API with advanced prompt engineering for culturally-aware, age-appropriate narratives.
- Deployed on HuggingFace Spaces with 500+ user sessions; designed intuitive one-click UI for non-technical parents.
- **Technologies:** Python, Gradio, Gemini API, Prompt Engineering, HuggingFace Spaces

ACHIEVEMENTS

- Achieved "Distinguishable" (Top 5%) performance rating for 4 consecutive years at HCL Technologies
- Client retention: Selected by NeoGenomics to continue role during vendor transition (2022)

CERTIFICATIONS & CREDENTIALS

AI & Generative AI Certifications:

- **Building AI Agents and Agentic Workflows** - IBM Specialization 🔗 View Certificate

- **ChatGPT Prompt Engineering for Developers** - DeepLearning.AI 🔗 View Certificate

- **Build With Andrew** - DeepLearning.AI 🔗 View Certificate

- **Generative AI Foundations Certificate** - UpGrad | Microsoft 🔗 View Certificate

- **AI For Business Professionals** – HP Life Global 🔗 View Certificate

Oracle & Database Certifications:

- Introduction to Oracle 9i SQL - SQL Star International
- Oracle 9i Forms Developer: Build Internet Applications - SQL Star International
- Oracle 9i: Programming with PL/SQL - SQL Star International
- ASP.NET using C# - CMC Limited

EDUCATION

Bachelor of Computer Application (BCA)