DEBABRATA PANDA

Punjab (Open to Relocation) | 9988801889 | debabratapanda225@gmail.com | LinkedIn | Portfolio

PROFESSIONAL SUMMARY

Data & Analytics Engineer with **3+ years of experience** architecting scalable data infrastructure and automated pipelines for global organizations including **UNICEF** and **United Way**. Expert in **SQL-driven transformations, ETL/ELT orchestration**, and building robust data modeling frameworks using **Python, Tableau, and Power BI**. Proven track record of **improving data reliability by 15%** and engineering end-to-end systems that bridge raw data assets with executive strategic insights.

TECHNICAL SKILLS

Data Engineering: **Advanced SQL, Python (Pandas, PyTorch), ETL/ELT Pipelines**, Data Modeling, **Git**, Data Governance.
BI & Infrastructure: **Tableau, Power BI (DAX), Excel Macros/VBA, Streamlit, Flask**, Next.js, FastAPI.
AI & Systems: **RAG Pipelines, Google Gemini Pro**, OpenAI Whisper, Vector Databases, **HRIS (HR360)**

PROFESSIONAL EXPERIENCE

Business Analyst (Analytics Engineer Focus) | Get Hire Technologies Inc (Client: UNICEF) | Feb 2025 – July 2026

- **Engineered automated data pipelines** using **Python and SQL** to migrate legacy manual reporting into centralized environments, increasing **data processing speed** and reliability.
- **Architected relational data models** and deployed interactive **Tableau and Power BI dashboards**, providing executive leadership with **real-time system-level visibility**.
- **Owned the end-to-end lifecycle of HRIS data systems** in **HR360**, implementing **automated validation scripts** to ensure **100% data integrity** and global privacy compliance.

Business Analyst (Data Infrastructure Focus) | Get Hire Technologies Inc (Client: United Way) | Jul 2024 – Jan 2025

- **Transformed raw program data** into production-ready datasets by designing robust **ETL workflows**, resolving **critical data lineage gaps.**
- **Developed scalable data architecture** and comprehensive process maps, improving **overall system efficiency** and enabling **data-driven decision-making.**
- **Validated cross-functional operational data** to ensure high-integrity reporting, streamlining the delivery of automated **performance monitoring tools.**

Data Analyst (Analytics Engineer) | High Radius | Jul 2021 – Jun 2022

- **Developed Python-based automation frameworks** for complex workflows, successfully **reducing manual pipeline intervention by 40%.**
- **Engineered SQL-driven analysis** of key system metrics, delivering insights that **improved workforce retention by 12%.**
- **Optimized Tableau-based reporting views, reducing query latency and reporting time by 20%** to streamline strategic resource planning.

Marketing Trainee | High Radius | May 2021 – Jul 2021

- **Executed data-driven segmentation models** in **Excel**, directly contributing to a **20% increase** in campaign engagement rates.
- **Implemented rigorous data quality assurance** protocols, **reducing lead generation report errors by 15%** for senior leadership review.

TECHNICAL PROJECTS

ClarkuBot (AI & RAG Pipeline) | IEEE Clark Hack 2025

- **Architected a production-grade RAG pipeline** using **Google Gemini Pro** and **Python** to automate document retrieval, achieving **100% consistency** with official policy.
- **Implemented automated data indexing** for CSV/TXT knowledge bases, significantly **reducing manual information retrieval time** and optimizing workflows.

Dual-Task X-Ray Analysis (PyTorch Pipeline) | Clark University

- **Built an end-to-end PyTorch-based pipeline** for dual-task classification, optimizing **diagnostic speed** through advanced **DenseNet** architectures.
- **Engineered custom image preprocessing (CLAHE)** and deployed the solution via a **Flask/Streamlit web app** for real-time diagnostic support.

Pod Insights (AI Audio Intelligence & Engineering) | Personal Project | In Progress

- **Architected an end-to-end data pipeline** using **FastAPI and Next.js** to ingest and process long-form audio via **OpenAI Whisper (ASR)**, implementing **asynchronous task queues** to ensure scalable processing with **minimal latency**.
- **Engineered automated NLP workflows** to transform high-fidelity transcriptions into infographic assets via **Stable Diffusion API**, visualizing structured metadata on a **real-time centralized intelligence dashboard**.

EDUCATION

M.S. in Data Analytics (STEM) | Clark University, Worcester, MA | Aug 2023 - May 2025
B.Tech in Telecommunications | Kalinga Institute of Industrial Technology, India | July 2018 - May 2022