Ousmane Diagne

Data Engineer & Web3 Analytics Researcher

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Summary

Data Engineer with 10 years of experience building data pipelines and analytic model. Currently focus on onchain analytics, building structured datasets and public analytics for Uniswap, Base, Solana, Monad, Polymarket and more.

Professional Experience (10 years)

Freelancer – Data Engineer (Remote) - 3 years   2023 – Present

- Designed and maintened end to end data pipelines using Microsoft Fabric, SAP Datasphere, Data Services and Databricks
- Owned SQL based transformation pipelines, modeling raw data into curated fact and dimension tables used in production analytics
- Used Python notebooks in Microsoft Fabric to automate ingestion workflows and implement validation logic for production data pipeline
- Defined data architecture and governance standards, including naming conventions, data quality rules, and access patterns across multiple projects
- Acted as technical lead for multiple data projects, owning architecture decisions and guiding junior engineers while coordinating with stakeholders

IBM Italy – Data Engineer (Hybrid) - 7 years   2016 – 2022

- Delivered analytics solutions for 10+ enterprise clients, including the Central Bank of Italy, The Italian Government and other dozen of enterprise and clients.
- Led analytical data architecture decisions, including schema design, data modeling standards, and performance strategies.
- Re-architected a €2M data warehouse for Edison Energy, improving query efficiency by 40%.
- Implemented CI/CD style deployment workflows for analytical models and replication pipelines, including versioning, testing, and controlled promotion across environments.
- Acted as technical lead and mentor, reviewing data models and guiding junior engineers.
- Recognized with two SAP Innovation Awards for analytics optimization and platform modernization initiatives.

Selected Web3 Analytics Projects

Community & Open Source

- Identified gaps in existing Dune Spellbook datasets and proposed modeling solutions for new protocols and data standardization. GitHub Link
- Proposed the integration of PancakeSwap v3 on Monad into dex.trades, defining schema design, transformation logic, and validation steps. GitHub Link

Base $JESSE – Creator Coin on Base

- Dune dashboard tracking on-chain trading activity for the $JESSE token on Base.
- Analysis of trading volume, activity timing, and unique wallet participation.
- Dashboard Link

Polymarket Uniswap Cup Analytics

- Extracted `OrderFilled` events from Polygon's `NegRiskCtfExchange` contract.

- Built metrics for trader volume, open interest, and market activity.
- Dashboard reshared on X by ecosystem analysts during Devconnect.
- Dashboard Link

Unichain Overview

- Launched a public Dune dashboard tracking Uniswap v4 metrics on Unichain.
- Measured cross-chain volumes, gas usage, and liquidity flow trends.
- Impact: KPIs referenced by Dune community reports.
- Dashboard Link

Solana NFTs Risk Monitor (Helius Hackathon)

- Designed a fraud detection model to identify wash trading patterns on Solana NFT markets.
- Flagged 2,000+ suspicious wallets.
- Recognized as a top analytics submission.
- Dashboard Link

Base Overview Dashboard

- Built multi-project analytics for the Base L2 ecosystem.
- Tracked failed transaction trends and project-level volumes.
- Impact: Identified 15% week-over-week growth in active users, shared with ecosystem leads.
- Dashboard Link

Uniswap v4 Hooks Indexer (ongoing)

- Indexed pool creation, swaps, and hook adoption using Solidity event listeners and Dune SIM IDX.
- Built metrics to monitor adoption across chains and evaluate protocol growth.
- Impact: Enabled visibility into 500+ pools and $100M+ swap activity.
- Github Repo

Skills

Data Tools: Dune, dbt, Databricks, Power BI, SAP Analytics Cloud, Microsoft Fabric
Programming: SQL, Python, ABAP, JavaScript
Modeling: Star Schema, OLAP / OLTP, DAG Orchestration
Cloud & Infra: API Integrations, Databricks, Supabase

Education

Diploma, Information Technology & Computer Science   2010 – 2016

Languages

English: Professional | Italian: Mother tongue