

METASEBIYA BIZUNEH AKILILU

Data Engineer | AI Engineer | Agentic AI Specialist

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PROFESSIONAL SUMMARY

Results-driven Data Engineer and AI Engineer with 3+ years of experience building ETL pipelines, agentic AI systems, RAG applications, and ML models. Skilled in Python, SQL, dbt, LangChain, LangGraph, prompt engineering, vector databases, Docker, and Power BI. Proven ability to design and deploy multi-agent AI workflows across real-world business case scenarios — from data engineering automation to intelligent retrieval — delivering measurable impact at scale.

SKILLS

Languages & Databases: Python, SQL (PostgreSQL, MySQL, SQL Server), JavaScript, TypeScript, Java, Angular
Data Engineering & MLOps: dbt, ETL Pipelines, Data Lakehouse, Data Warehousing, Data Modelling, GCP BigQuery, Apache Airflow, Prefect, DVC, Docker, Docker Compose, GitHub Actions CI/CD
Agentic AI & LLMs: LangChain, LangGraph, Agentic AI, Multi-Agent Systems, RAG, Dynamic LLM Routing, Prompt Engineering, Context Engineering, Spec-Driven Development, System Instructions, Vector Databases, FastAPI
Visualization & Tools: Power BI, Streamlit, Pandas, NumPy, Matplotlib, Seaborn, Git/GitHub, Redis, AppScript

WORK EXPERIENCE

Technical Tutor – Agentic AI | 10Academy

California, USA (Remote) | Feb 2026 – Present

- Designed and delivered weekly Agentic AI tutorial sessions, training 20+ engineers in building multi-agent systems with LangGraph and applying agent workflows to real-world business scenarios across data engineering, financial analytics, and intelligent automation.
- Mentored trainees in implementing tool-use agents, RAG agents, and multi-step orchestration pipelines using LangChain and LangGraph — resulting in production-grade AI projects delivered each cohort.
- Enhanced the TenX backend AI platform by implementing dynamic LLM routing across multiple providers, Redis-based state management to eliminate blackbox behavior, input validation, and system instructions — improving AI rubric generation reliability and observability.
- Moderated daily standups for 20+ trainees, prepared forward-deployed engineering questions, verified weekly grades, and led an AI meetup session — sustaining cohort momentum and program quality.

Data Engineer / ML Engineer | Fraud Detection Project – E-Commerce & Banking

2024 – 2025

- Engineered fraud-specific features from 500K+ transaction records — including velocity patterns, time-of-day signals, and device fingerprinting — enabling models to surface previously hidden fraud signals.
- Built and evaluated XGBoost, Random Forest, and Logistic Regression classifiers, achieving an 18% F1-score improvement over baseline through systematic hyperparameter tuning and precision-recall optimization.
- Applied SHAP explainability techniques to generate feature importance reports, enabling business stakeholders to interpret model decisions and act on fraud signals with confidence.

AI Engineer | Intelligent Complaint Analysis – Financial Services

2024 – 2025

- Designed a RAG pipeline combining vector similarity search with LLMs over 100K+ unstructured consumer complaint narratives, reducing analyst time-to-insight from hours to minutes through semantic retrieval.
- Built a Streamlit chatbot interface with grounded LLM responses backed by retrieved source documents, enabling natural-language querying of large-scale complaint data by non-technical analysts.

Data Analyst / Data Engineer | Insurance Risk Analytics & Predictive Modeling

2024

- Engineered reusable, modular Python packages for EDA and statistical analysis, cutting code duplication by 40% and accelerating pipeline iteration across multiple modeling experiments.
- Conducted A/B testing and chi-squared analyses to validate risk segmentation hypotheses, providing data-backed evidence that directly informed pricing strategy decisions.
- Implemented DVC for dataset versioning and experiment tracking, ensuring full reproducibility across all analysis iterations and enabling reliable model comparisons.

Front-End Developer | DeckCraft

USA (Remote) | Mar 2024 – Sept 2024

- Built a Google Sheets AppScript sidebar app integrating 3+ external APIs, automating repetitive data management workflows and measurably reducing user task completion time.
- Enhanced app functionality through custom automation scripts, increasing feature coverage and streamlining the end-to-end data entry experience for clients.

Front-End Developer | Misale Marketing and Consultancy Plc *Ethiopia | Nov 2023 – Jul 2024*

- Conducted systematic code reviews and debugging across multiple front-end modules, reducing reported UI bugs and improving application performance through consistent coding standards.
- Optimized component-level rendering and state management, improving page load speed and delivering a smoother user experience across the application.

Software Engineer | eTech ICT Solutions *Ethiopia | Jun 2022 – Feb 2024*

- Developed HRMS, Inventory, and OKR enterprise systems using Java and Angular for 3+ clients, digitizing manual workflows and reducing process completion time across departments.
- Designed end-to-end business process flows using Miro, enabling cross-functional teams to align on operational workflows and accelerating team onboarding.
- Managed PostgreSQL reporting pipelines and optimized Apache server deployments, increasing system uptime reliability and delivering timely business intelligence to decision-makers.

OTHER PROJECTS

Data Analyst | Power BI Job Simulation – PwC / Forage *2025*

- Built 2+ executive Power BI dashboards visualizing KPIs for gender diversity, translating raw HR data into clear visual narratives that supported C-suite decision-making.
- Delivered client-ready written communication summarizing actionable insights, demonstrating ability to present data findings clearly to non-technical stakeholders.

Data Analyst | Accenture Data Analytics & Visualization Simulation – Forage *2024*

- Cleaned and analyzed 5 client datasets using Python and Excel, synthesizing findings into a structured presentation deck with data-backed strategic recommendations.

Data Analyst | We Rate Dogs Twitter Archive Analysis *2023*

- Collected data from multiple sources — CSV files and Twitter API — integrated datasets, and conducted EDA to uncover engagement trends across 5,000+ tweets using Pandas, Matplotlib, and Seaborn.

EDUCATION

BSc. Software Engineering – GPA: 3.45 / 4.0 | Addis Ababa University *Ethiopia | 2016 – 2021*

Data Analysis Nanodegree | Udacity *2022*

CERTIFICATIONS

10 Academy Kifiya AI Mastery Program (2025) | PwC Power BI Job Simulation – Forage (2025) | McKinsey Forward Program (2024)

Accenture Analytics Simulation – Forage (2024) | Data Analytics – ALX Africa | Explore AI (2024) | HerTechTrail Academy – Data Analytics Pro (2024)

LANGUAGES & VOLUNTEERING

Amharic (Native) | English (Fluent) | Korean (Beginner)

- Tutored Year 6 & 9 Cambridge curriculum students in Mathematics and Science, improving student performance through structured lesson planning.
- Developed a member management mobile application for a community organization, digitizing member records and streamlining administrative workflows.
- Assisted with public event logistics and coordination at Meskel Square, Addis Ababa, supporting large-scale community gatherings.