

Bekam Genene Gudeta

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PROFESSIONAL SUMMERY

Aspiring AI Engineer with experience across machine learning, web development, and emerging Agentic AI systems. Strong background in computer science fundamentals, Python, and SQL, with practical experience developing ML models and full-stack applications. Familiar with designing intelligent agents, AI workflows, and integrating models into production-ready web systems. Curious, disciplined, and growth-driven, with a strong interest in building autonomous, intelligent software that solves real-world problems.

TECHNICAL SKILLS

Programming Languages:: Python, SQL, Java, C++,TypeScript,JavaScript

Databases: MySQL, mongoDB, PostgreSQL

Technology/Platform:: Git [🔗](#), Github, Figma

Machine learning: TensorFlow/Keras, CNN, Data Preprocessing, Classification, Data Augmentation

Data Analysis & Visualization: NumPy, Matplotlib, Pandas

Soft Skills: Problem-solving, Analytical Thinking, Collaboration, Attention to Detail

Frameworks: Flutter, React, Node.js

EDUCATION

Bachelor of Computer Science and Engineering,

Adama Science and Technology University

03/2022 – 07/2027 | Adama, Ethiopia

Relevant Coursework: Data Structures & Algorithms, Advanced Java, Object-Oriented Programming

Data Analysis & Artificial Intelligence Fundamentals Nanodegree

Udacity | *Expected 2025*

Fundamentals of Building AI Agents,

Coursera [🔗](#)

Designing intelligent systems that perceive their environment, make decisions, and act autonomously to achieve specific goals.

PROFESSIONAL EXPERIENCE

Machine Learning Intern | Evvello Pathways [🔗](#) 09/2025 – 10/2025 | Cairo, Egypt

- Gained practical experience in end-to-end machine learning workflows, contributing to a project that improved model feature reliability for ongoing systems.
- Applied data preprocessing and feature engineering techniques to a dataset of 10,000+ entries, enhancing data quality for model training.

ML and Web Development Intern | INSA [🔗](#) 07/2025 – 09/2025 | Addis Ababa, Ethiopia

- Developed and integrated AI/ML features for a Knowledge Management System, focusing on data organization and analytics.
- Applied machine learning concepts, including data preprocessing and classification algorithms, to enhance system functionality and improve data retrieval efficiency.

PROJECTS

Traffic Sign Recognition System | Personal Project [🔗](#)

- Engineered a Convolutional Neural Network (CNN) using Keras to classify 40+ categories of German traffic signs, achieving **98% accuracy** on the test dataset through optimized architecture and data augmentation.
- Implemented a comprehensive data preprocessing pipeline with resizing and normalization, improving model generalization and reducing overfitting.
- Trained and evaluated the model on a dataset of 50,000+ images, demonstrating robust performance across diverse traffic sign conditions.

Ethiopian Airline Reservation System | Academic Project [🔗](#)

- Designed and built a full database-driven application using SQL that managed flight bookings and reservations, serving as the core platform for the project.
- Developed optimized SQL queries that ensured data integrity and reduced query response time by 30% compared to initial implementations.

Predicting-Price-Moves-with-News-Sentiment | training Project [🔗](#)

- Built an NLP-driven system that analyzes news sentiment to predict financial market movements, showcasing skills in text mining, sentiment analysis, and time-series forecasting.
- Combined multiple data sources (news, market prices) and deployed preprocessing pipelines for high-volume data ingestion. and Communicated results with clear Jupyter notebooks and visualizations