BURUK ASRAT TSEGAYE

AI & Software Engineering Student · Applied Machine Learning Enthusiast

Rome, Italy | +39 351 894 5958 | burukasrat1995@gmail.com | LinkedIn | GitHub

Profile

Final-year BSc student in Applied Computer Science & AI at Sapienza University of Rome (graduating July 2026). Hands-on experience in ML pipelines, computer vision, full-stack development, and HCI research. Seeking a software or data engineering internship in a fast-paced, collaborative environment.

Education

Sapienza University of Rome *Sep 2022 – Jul 2026 (expected)*

BSc in Applied Computer Science and Artificial Intelligence · Rome, Italy

Coursework: Algorithms & Data Structures · Databases · Software Engineering · AI · Deep Learning · HCI

Technical Skills

Programming: Python, Go, JavaScript, SQL, HTML/CSS
ML & Data: Pandas, NumPy, scikit-learn, TensorFlow, OpenCV, Jupyter Notebook
Frameworks: Vue.js, Node.js, REST APIs **Tools:** Git, GitHub
Languages: English (Fluent) · Amharic (Native) · Italian (Beginner)

Projects

ML & Data

Movie Performance Analysis

Analyzed box office success factors (Python, R); feature engineering, EDA, and statistical modelling communicated through visualizations.

Animal Image Classifier

CNN pipeline to classify animal images; applied preprocessing, augmentation, and evaluation metrics (accuracy, confusion matrix).

Deep Learning Coursework

Studied CNNs, RNNs, and Transformers; hands-on work with OpenCV for computer vision and end-to-end dataset management pipelines.

Software Engineering & Design

Real-Time Messaging App *Go · Vue.js*

Full-stack platform with JWT authentication and persistent storage; owned backend API design and frontend UX end-to-end.

Recipe Saving App — HCI Design Project *Node.js*

Conducted user surveys to identify recipe-saving pain points; designed an app concept and iteratively refined the UI through structured feedback sessions with multiple reviewers.

Key Strengths

- Strong analytical and problem-solving skills across ML and data engineering projects.
- Proficient with Python, SQL, and data visualisation to extract insights and support decisions.
- Experienced in HCI research: survey design, iterative feedback, and user-centred design.
- Proven end-to-end project ownership in international, multi-disciplinary academic settings.

Career Goal

Aiming to become an AI engineer specialising in applied machine learning and data-driven products — passionate about building systems that make a measurable real-world impact.