HGUS WELDEYOWHANES WELLU

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Profile

A detail-oriented Computer Science and Engineering graduate with a solid foundation in software development, data science, and business intelligence. Proficient in Python, with experience in developing applications, automating tasks, and building backend systems. Comfortable working with frameworks like Django and tools like Git, REST APIs, and SQL. Skilled in writing clean, maintainable code and collaborating in agile development teams. Passionate about building scalable solutions and continuously improving through hands on learning. A quick learner and effective communicator with strong problem-solving abilities, eager to contribute to innovative software projects in a junior developer role

Technical Skills

- **Programming:** Python, Django, C++, html/css, javascript,Reactjs
- **Data Analysis & Visualization:** pandas, matplotlib, seaborn
- **Database Management:** PostgresSQL,SQLite
- **Software Development Tools:** Git, Github, Jupyter Notebook, vscode
- **Others** : REST APIs , JSON,

Soft Skills

- Problem-Solving
- Creativity
- Teamwork
- Effective Communication
- Time Management

Education

B.Sc. in Computer Science and Engineering
Mekelle University (Mekelle Institute of Technology) | **2017 – 2024**
CGPA: 3.76 / 4.0

Work Experience

Software Development Intern - Responsive and Interactive Medical Dashboard
Mekelle University | **Feb 2024 – May 2024**

- Engineered a full-stack medical data visualization platform, integrating React.js, Recharts, Node.js, and MongoDB, to provide healthcare professionals with real-time insights.

- Designed and developed interactive, responsive medical dashboards, improving data accessibility and user experience for hospital staff.

- Optimized large-scale medical datasets through advanced data cleaning, preprocessing, and analysis techniques, enhancing accuracy and reliability for critical decision-making.

- Implemented custom reporting tools and KPI tracking, enabling real-time monitoring of patient health metrics and hospital performance.

- Collaborated with cross-functional teams of data analysts, healthcare professionals, and software developers to build data-driven solutions for improved patient care and hospital management.

Django Developer Intern

Convex Technology,   Addis Ababa|June – Present

- Developed and maintained Django-based applications
- Designed and tested RESTful APIs for internal and client use
- Collaborated with senior developers in an agile workflow
- Used Git for version control and GitHub for code reviews
- Full CRUD functionality, authentication, and JWT-based login
- Separate views for admin and regular users

Project

Real-Time Sign Language Detection System - Final Year Project

Developed an intelligent, real-time sign language recognition system using Python, OpenCV, and CNN-based deep learning models. Designed to capture and process live video feeds, the system detects hand gestures and accurately classifies sign language in real time.

- Integrated MediaPipe for robust hand landmark detection

- Trained a custom Convolutional Neural Network (CNN) to recognize multiple sign language gestures

- Built a user-friendly interface to display real-time predictions with high accuracy and low latency

- Optimized model performance for deployment on standard hardware using efficient preprocessing and lightweight architecture

Academic Honors and Certifications:

- **Certificate in Python for Data Science** (Coursera, University of Michigan)
- **CCNA: Introduction to Network**
- **Certificate in Data Analysis and Visualization** (CognitiveClass.ai)
- **Machine Learning Specialization** (Coursera, Stanford University)

Languages

- **English:** Fluent
- **Amharic:** Fluent
- **Tigrigna:** Native