

# Hemen Girma

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## SUMMARY

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4th-year Software Engineering student building a foundation in Machine Learning and Data Science. Gained hands-on experience with TensorFlow and computer vision through a research internship. Seeking an entry-level AI/ML internship to apply my Python skills and learn from industry experts.

## SKILLS

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- AI/ML Frameworks: TensorFlow, PyTorch, Keras, YOLOv11
- Data Processing: Pandas, NumPy, Scikit-learn, OpenCV
- Programming: Python, Java, C++, JavaScript, SQL
- Web Development: React.js, HTML/CSS, Java Swing
- Databases & Tools: MySQL, SQLite, Firebase, Git, CVAT
- Core Concepts: OOP, Data Structures & Algorithms, Computer Vision, Data Annotation

## EXPERIENCE

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### Ethiopian Artificial Intelligence Institute (EAII) | Addis Ababa, Ethiopia

*AI Research Intern* | June 2025 – September 2025

- Engineered deep learning system using CNN architecture to detect 8 mango leaf diseases, achieving 90% accuracy with 91% precision
- Developed complete TensorFlow/Keras training pipeline processing 3,998+ images with data augmentation techniques
- Implemented text detection component using YOLOv11 for Amharic OCR system in team development environment
- Processed 49+ scanned book pages using CVAT, developing data annotation pipelines and optimizing detection performance
- Collaborated with team members to integrate detection with CRNN recognition components, contributing to system accuracy

## EDUCATION

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### Adama Science and Technology University (ASTU) | Adama, Ethiopia

*Bachelor of Science in Software Engineering*

*Expected Graduation: 2027*

**Relevant Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Database Systems, Computer Networks, Web Technologies, Software Engineering, Deep Learning

## PROJECTS

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### Mango Disease Detection System | Computer Vision

*Python, TensorFlow, CNN* | Jun–Sep 2025 (internship)

- Developed CNN model with 90% accuracy for classifying 8 mango leaf diseases
- Processed 3,998 images and built complete training/inference pipeline
- Technologies: Python, TensorFlow, Keras, OpenCV, CNN

#### **Student Attendance Management System | Desktop Application**

*Java, Swing, MySQL* | Jun–Jul 2025

- Built Java Swing application for managing student attendance records
- Designed MySQL database and implemented CRUD operations
- Technologies: Java, Swing, MySQL, JDBC, OOP

#### **University Website Frontend | Web Development**

*HTML5, CSS3* | Jan–Feb 2025

- Created responsive university website using React.js with mobile-first design
- Implemented interactive components and modern UI/UX
- Technologies: React.js, HTML5, CSS3, JavaScript