



## AHMED MOHAMMED

### DATA SCIENCE ENGINEER

A motivated Computer Engineer and Data Scientist with a Bachelor's in Electrical and Computer Engineering and a Master's in Computer Science, specializing in Data Science. My unique background provides a robust blend of hardware-aware insight and advanced software & algorithmic expertise, enabling me to build efficient and practical data-driven solutions.

#### PROFILE

Data Scientist and Computer Engineer with MSc in Data Science and hands-on experience in fullstack development and IT systems. Passionate about building bridges between raw data, scalable software, and actionable business intelligence

#### KEY SKILLS

- AI & Machine Learning:
  - Speech Recognition & NLP: Acoustic Modeling, Feature Extraction, Speech-to-Text Systems, Sentiment Analysis.
  - Deep Learning: Neural Networks (RNNs, LSTMs, Transformers) for sequential data, TensorFlow, PyTorch, Keras.
  - Core ML: Predictive Modeling, Statistical Analysis, Dimensionality Reduction.
- Programming & Data Engineering:
  - Languages: Python (Pandas, NumPy, Scikit-learn, Librosa), SQL, JavaScript/Node.js Data &
  - Deployment: Data Pipelines, API Development, Database Design (SQL & NoSQL)

I am an engineer with a solid foundation in both hardware and software, holding a BSc in Electrical and Computer Engineering, followed by an MSc in Computer Science with a specialization in Data Science. This unique combination allows me to bridge the gap between theoretical models and real-world system constraints. I am passionate about leveraging machine learning, statistical analysis, and data engineering to solve complex challenges and extract meaningful insights from data.

#### EDUCATION

- Bachelor's Degree in Electrical and Computer Engineering
  - JIMMA
    - JIMMA INSTITUTE OF TECHNOLOGY (JIT)
- Master's Degree in Computer Science (Focus Area Data Science)
  - Addis Ababa
    - American College of Technology (ACT)

#### CONTACT ME

- +251 918 564780
- +251 996 251918
- ahmedahmimo53@gmail.com

## WORK EXPERIENCE

### FULL STACK WEB DEVELOPMENT (MERN)

AND

### ARTIFICIAL INTELLIGENCE (AI)

INSTRUCTOR

MIZAN INSTITUTE OF TECHNOLOGY | [2021] – [PRESENT]

Designed and delivered comprehensive curriculum for full-stack web development covering

- **FRONT-END**

- HTML5
- CSS3
- JavaScript
- React
- Angular
- Vue

- **BACK-END**

- Node.js with express
- Python
- databases (Mysql and mongodb) and
- deployment.

#### IT Personnel | Zaafaran Foreign Employment Agent PLC.

Managed and maintained the company 's IT infrastructure including

- hardware software network systems
- ensuring high availability and security
- Provided technical support to staff, troubleshooting hardware and software issues to minimize downtime and maintain operational efficiency.
- Assisted in the management and security of sensitive employee and client databases
- system administration.

Reference: Zaafaran Foreign Employment Agent PLC.  
Contact: +251913050431 / +251911200759  
Email: zaafaran.agent@gmail.com

Here is my previous list of AI and ML related work and projects

- **Real-Time Object Detection for Visually Impaired Assistance (Computer Vision) [Bsc Final year Project]**
  - I have build a system that can identify and audibly announce common objects in a user's surroundings in real-time using a smartphone camera
- **Financial Sentiment Analysis and Stock Price Movement Predictor (NLP/Time Series) [Msc Course Project]**
  - This was to analyze the sentiment of financial news headlines and Twitter data to predict short-term stock price movement direction.
- **Customer Segmentation for Targeted Marketing (Unsupervised Learning) [Msc Course Project]**
  - This was to segment a company's customer base into distinct groups based on purchasing behavior to enable personalized marketing campaigns
- **Blockchain-Based System for Ethiopian Land Registry Trade License and Vehicle Ownership Management [Msc Thesis Project]**

Reference: Mizan Institute of Technology (MiT)

Contact: +251987143030

Email: [contact@mizantechinstitute.com](mailto:contact@mizantechinstitute.com)

Website: [www.mizantechinstitute.com](http://www.mizantechinstitute.com)



Ref. No. LD-0000378294

Date May 25, 2022

**National Educational Assessment and Examinations Agency (NEAEA)**  
**Ministry of Education**  
**The Ethiopian General Secondary Education Certificate Examination**  
**Replacement Certificate**

This is to certify that AHMED MUHAMMED ABDIREHMAN was  
a candidate of the Ethiopian General Secondary Education Certificate Examination  
in 2006 E.C. 2014 G.C. registration number 0153234 and scored the following grade(s).

<u>SUBJECT</u>	<u>RESULT</u>
Amharic	A
English	A
Mathematics	A
Physics	A
Chemistry	A
Biology	A
Geography	A
History	A
Civic	A

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Aragaw Mazeng'aw Belete  
Certificate Replacement &  
Verification Worker

Betelhem Hailu Aragaw  
Certificate Replacement &  
Verification Worker

Real

Distinction \_\_\_\_\_ 4A's  
Great Distinction \_\_\_\_\_ 5A's  
Very Great Distinction \_\_\_\_\_ 6A's and Above

This Certificate is invalid if it does not bear the NOE seal on both the photograph of the candidate and at the bottom of the grade(s).  
Any scratch, delete or misuse of the information in the certificate would result in invalidity of the document

Serial No 191416





Ref. No LD-0000378295

Date May 25, 2022

National Educational Assessment and Examinations Agency (NEAEA)

Ministry of Education

University Entrance Examination

Replacement Certificate

This is to certify that AHMED MOHAMMED ABDIREHMAN was  
a candidate of the Ethiopian Higher Education Entrance Qualification Examination in 2008 E.C.  
2016 G.C. registration number 554708 and scored the following grade(s).

<u>SUBJECT</u>	<u>RESULT</u>
English	63
NMaths	85
Physics	72
Chemistry	61
Biology	89
Civic	87
Aptitude	58
TotalGrade	515

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Aragaw Mazengiaw Belete  
Certificate Replacement &  
Verification Worker

Seal

Betelhera Tadiu Aragaw  
Certificate Replacement &  
Verification Worker

Serial No 049584

This Certificate is invalid if it does not bear the NOE seal on both the photograph of the candidate and at the bottom of the grade(s).

Any scratch, delete or misuse of the information in the certificate would result invalidity of the document



AMHARA NATIONAL REGIONAL STATE  
BUREAU OF EDUCATION  
TRANSCRIPT

Ser. No 3762290



SCHOOL AYKEL G-E-S  
WOREDA Chiso ZONE Wolanao  
TEL. No. 0A23 P.O. Box \_\_\_\_\_ FAX \_\_\_\_\_  
NAME OF THE STUDENT Ahmed Mohammed Abaykorm SEX M AGE \_\_\_\_\_  
DATE OF ADMISSION 2005 E.C DATE OF LEAVING 2006 E.C

Gondar Printing Enterprise 29/8/2004

Gondar Printing Enterprise 29/8/20

SUBJECT		GRADE 9 SEC. <u>D</u>			GRADE 10 SEC. <u>D</u>			REMARKS
		YEAR <u>2005</u>			YEAR <u>2006</u>			
		SEMESTER			SEMESTER			
		I	II	AVE.	I	II	AVE.	
1	AMHARIC	94	96	95	95	88	91.5	
2	ENGLISH	97	93	95	88	68	78	
3	MATHEMATICS	94	91	92.5	84	80	82	
4	PHYSICS	96	95	95.5	74	88	81	
5	CHEMISTRY	94	97	95.5	100	96	98	
6	BIOLOGY	98	91	94.5	78	93	85.5	
7	GEOGRAPHY	96	95	95.5	94	95	94.5	
8	HISTORY	94	89	91.5	92	88	90	
9	CIVIC & ETHICAL	100	98	99	89	81	85	
10	H.P. EDUCATION	91	95	93	89	89	89	
11	IT	90	92	91	91	84	87.5	
		}	}	}	}	}	}	
		}	}	}	}	}	}	
TOTAL		1044	1032	1038	994	910	932.5	
AVERAGE		94.4	93.8	94.4	90.3	86.4	88.5	
RANK		I	I	I	1	1	1	
CONDUCT								

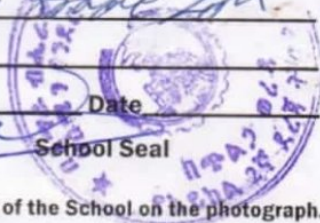
1. This transcript is prepared by Asmare Berhan Sign. [Signature] Date 14/12/06

2. The student's academic record shows that he/she has Completed Grade 10

Director's Name \_\_\_\_\_ Sign. \_\_\_\_\_ Date \_\_\_\_\_

Asmare Berhan  
Gondar

[Signature]



This Transcript is valid only when it has no alterations, Erasures and bears the seal of the School on the photograph.



**AMHARA NATIONAL REGIONAL STATE  
BUREAU OF EDUCATION  
TRANSCRIPT**

Serial. No 4146925

SCHOOL KOLLADIBA H.E.P.R.

ADM. ZONE N/GONDAR

TOWN KOLLADIBA TEL. NO. 0583350045

P.O. Box \_\_\_\_\_

Fax \_\_\_\_\_

FULL NAME OF THE STUDENT AHMED MUHAMMED ABDIREH

Sex \_\_\_\_\_

DATE OF ADMISSION 2007 E.C DATE OF LEAVING \_\_\_\_\_

*Gondar Primary Enterprise 05/07/2007*



No.	SUBJECT	GRADE 11 SEC. <u>D</u>			GRADE 12 SEC. <u>D</u>			Remarks
		YEAR 200 <u>7</u> E.C			YEAR 200 <u>8</u> E.C			
		SEMESTER			SEMESTER			
		I	II	AVE.	I	II	AVE.	
1	AMHARIC	99	94	96.5	98	99	98.5	
2	ENGLISH	89	88	88.5	82	80	81	
3	MATHEMATICS	100	98	99	95	89	92	
4	PHYSICS	99	92	95.5	82	82	82	
5	CHEMISTRY	96	96	96	88	88	88	
6	BIOLOGY	84	89	86.5	90	87	88.5	
7	GEOGRAPHY	{	{	{	{	{	{	
8	HISTORY	{	{	{	{	{	{	
9	CIVICS/ETHICS/	96	92	94	85	77	81	
10	ECONOMICS	{	{	{	{	{	{	
11	G.N. BUSSINESS	{	{	{	{	{	{	
12	INFORM. TECH.	88	81	84.5	100	95	97.5	
13	H.P.E /SPORT	92	93	92.5	97	90	93.5	
14	TECH. DRAWING	74	93	83.5	91	65	78	
		{	{	{	{	{	{	
		{	{	{	{	{	{	
TOTAL		919	916	916.5	908	852	880	
AVERAGE		91.9	91.6	91.65	90.8	85.2	88	
RANK		1	1	1	1	1	1	
CONDUCT								

- IMPORTANT:-**
1. This Transcript is prepared by Shegey Checked by Shegey Date 2007/08/12
  2. The Student's academic record shows he/she has Completed
  3. This transcript is valid only when it has no alternations, Signature and bears the school seal on the student photo.

DIRECTOR'S NAME AND SIGNATURE

*Asfaw Tsegay*  
Director







JIMMA UNIVERSITY

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OFFICE OF THE REGISTRAR

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**TEMPORARY CERTIFICATE OF GRADUATION**

This is to certify that  
**AHMED MOHAMMED ABDIREHMAN**  
graduated from  
Jimma Institute of Technology  
with  
**B.Sc. Degree in Electrical and Computer Engineering (Computer Engineering Focus Area)**  
(Regular)  
on  
**August 05, 2021.**

This certificate of graduation has been given pending  
the printing and issuance of the actual diploma.

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We are in the Community

Registrar

Dr. Teshome Belayneh  
Deputy Registrar

23 MAY 2022



+251 47 111 7822



+251 47 111 2206  
+251 47 111 1450



378  
JU, ETHIOPIA



main.registrar@ju.edu.et



http://www.ju.edu.et



# Certificate of Appreciation

This certificate is awarded to

**AHMED MOHAMMED ABDUREHMAN**

*In recognition to the valuable contribution of the final year research/project entitled "Reading Assistant for visually impaired peoples" ranking 2nd among selected final year researches/projects from the Faculty of Electrical Engineering in the year 2020/21.*

  
Birhanu Belete  
Dean, Faculty of Electrical  
& Computer Engineering

Birhanu Belete  
Dean, Faculty of Electrical and Computer Engineering







# JIMMA UNIVERSITY JIMMA INSTITUTE OF TECHNOLOGY

## Certificate of Award

This Certificate is Awarded to:

**Ahmed Mohammed**

In recognition to the valuable contribution of the final year project entitled " **Reading Assistant for Visually Impaired Person**" ranking 1<sup>st</sup> among selected final year projects of the Jimma Institute of Technology, Jimma University in the year 2021.



*Lucy Feteke (PhD)*  
Director for Community Based  
Education & Community Service

CBE&CS Director for Jimma Institute of Technology



*Kenneth W. W. (PhD)*  
Scientific Director

Scientific Director of Jimma Institute of Technology

