Ephrem Tibebe Mekonnen

Date of birth: 02/01/1996

Nationality: Ethiopian

Gender: Male

CONTACT

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ABOUT ME

Recent graduate with a Master's degree in Computer Science, looking for a company where I can work, learn, and develop my future career. I am a dedicated, organized, humble, eager to learn, and methodical individual. Moreover, I have good interpersonal skills and am an excellent team worker.

WORK EXPERIENCE

26/02/2021 – 22/12/2021 – Trento, Italy

Research intern

Fondazione Bruno Kessler - FBK

- Evaluate the performance of Connectionist Temporal Classification(CTC) and Recurrent Neural Transducer(RNNT) models on Timit(English), apasci(Italian), and Amharic speech corpus for the phoneme and word recognition tasks.
- Incorporating a word-based language model in CTC Beam Search Decoder for E2E ASR.
- Comparing Character-Based and Word-Based Neural Networks for Keyword Spotting task

29/09/2017 – 04/09/2019

Higher education teaching professional

Haramaya University

- deliver lectures, seminars, and tutorials
- design, prepare and develop courses and teaching materials
- support students through a pastoral or advisory role

Haramaya, Ethiopia

10/07/2016 – 30/09/2016 – Addis Ababa, Ethiopia

Software developer intern

Ethiopian Airlines

Developed a fleet management system that helps to manage and dispatch vehicles of the company. The project was developed using ASP.NET MVC5.

EDUCATION AND TRAINING

09/09/2019 – 22/12/2021 – Trento, Italy

Master of Science Degree in Computer Science

University of Trento

End-to-End Keyword Spotting Using A Character-Level Recognition and Beam-Search Rescoring

12/09/2013 – 02/07/2017 – Addis Ababa, Ethiopia

Bachelor of Science Degree in Computer Science

Addis Ababa University

GPA: 3.63 Major GPA: 3.66 | Motor pool management System for Ethiopian Airlines | www.aau.edu.et

PROJECTS

01/07/2021 – 05/10/2021

End to End Keyword Spotting (E2E KWS)

https://github.com/Ephrem-ETH
An end-to-end low-resource keyword spotting through a character-level LSTM and connectionist temporal classification loss function.

07/11/2020 – 31/01/2021

Mining Frequent Popular Topics in time from tweet dataset

- Given the tweet dataset about covid-19, and the idea of the project is to find frequent popular words that appear together in time. It is implemented fully in python.

21/02/2020 – 30/07/2020

Course Project: Quorum-Based Total Order Broadcast

- Implementing a protocol for the coordination of a group of replicas, sharing the same data, that tolerates multiple node failures thanks to a Quorum-based approach.The system handles update requests coming from external clients and guarantees all replicas apply the update in the same order. Updates are managed by a special replicas, the coordinator, following a two-phase broadcast procedure. if the coordinator crashes, a new one is elected to ensure continuity of service.
- It is coded in Java (Using Akka framework)

22/02/2020 – 28/05/2020

Deploying Web Application using Docker and Kubernetes

- Fog and Cloud Computing Class project.
- Deploying web application using docker and kubernetes to easily scale up/ down the web server as per the traffic, mange and leverage the benefits of both technologies.

Machine Learning Projects

- Classification of Spam/Not Spam using Scikit-Learn
- Optical Character Recognizer(OCR)
-Aimed to demonstrate machine learning algorithms and techniques to implement OCR with high accuracy.
- House Price: Advanced Regression Technique from Kaggle

** I have also taken deep learning courses from Coursera and done the course projects along the way.**

30/09/2016 – 02/2017

Pharmacy Inventory Management System

- A desktop application that helps to register stocks, manage sells and purchases easily. It has well-implemented account management so that mangers of the pharmacy can control what is going on and take efficient decisions accordingly. The application can also support different languages.

HONOURS AND AWARDS

09/09/2019
University of Trento Scholarship (Autumn 2019 -2021) – University of Trento

02/08/2020
The Cornell, Maryland, Max Planck Pre-doctoral Research School 2020 – The Cornell, Maryland, Max Planck Pre-doctoral Research School
Emerging Research Trends in Computer Science

CERTIFICATIONS

Neural Networks and Deep Learning on Coursera

Certificate earned on April 2020

Python for Data Science and AI by IBM on Coursera

Certificate earned on March 2020

Docker for the Absolute Beginner on KodeKloud

Certificate earned on April 2020

Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization on Coursera

Certificate earned on April 2020

MLOps (Machine Learning Operations) Fundamentals

Certificate earned on May 2021

TECHNICAL (IT) SKILLS

Tools

Eclipse, NetBeans, Visual Studio, Android Studio

Languages

Java, Python, JavaScript, Kotlin, HTML, CSS, C#, ASP.net MVC 5, Django

Database Managment

SQL Server 2012, MYSQL, Oracle 11g

Cloud - based Technologies

Docker and Kubernetes

LANGUAGE SKILLS

MOTHER TONGUE(S): Amharic

OTHER LANGUAGE(S):

English

Listening	Reading	Spoken production	Spoken interaction	Writing
C1	C1	C1	C1	C1

Italian

Listening	Reading	Spoken production	Spoken interaction	Writing
A1	A1	A1	A1	A1