Mustefa Abrahim Usman

Date of birth: 08/08/1998 | **Nationality:** Ethiopian | **Phone number:**

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Address: IIT Madras, chennai tamil nadu, 600036, Chennai, India (Work) |

Address: Kurfa chele, East Hararge,Oromia, Dire Dawa, East hararge, Oromia, 0, Addis Ababa, Ethiopia (Home)

EDUCATION AND TRAINING

25/07/2022 – 25/07/2024 Chennai, India
M TECH DATA SCIENCE AND AI Indian Institute of Technology Madras

25/07/2018 – 19/08/2022 Bhubaneswar, India
B TECH IN ELECRONICS AND COMPUTER SCIENCE Kalinga Institute of Industrial Technology

WORK EXPERIENCE

01/06/2023 – 30/07/2023 Chennai, India
BUSINESS ANALYST — INTERN AT FINLATICS

Employed Microsoft Excel and Power BI to Foster Data-Driven Decision-Making

- Conducted case studies for industry leaders such as Airbnb, Procter & Gamble, Clearfit and Yes Bank
- Leveraged expertise in data visualization using Power BI to extract valuable insights from complex datasets
- Contributed to informed decision-making and business growth by enhancing business strategies

15/05/2023 – 15/07/2023 Ropar, India
ENERGY MENTOR IIT ROPAR INTERNSHIP

Collaborated with a 5-member team to develop a digital twin for a hybrid energy system

- Engineered a hybrid model that integrated Solar PV, Wind turbine, Fuel cells and Propane as energy sources
- Conducted processing of Energy Demand data and applied PCA to achieve dimension reduction on the dataset
- Implemented Particle Swarm Optimization as the optimization algorithm to determine the optimal energy
- production from a diverse range of sources, resulting in a significant 33% reduction in energy waste

01/05/2021 – 30/06/2021 India
CORE JAVA — INTERN AT INTERNSHALA

- Utilized Core Java skills to design visually attractive and interactive graphical user interfaces (GUIs) with multimedia support, scene graph management, CSS styling, and event handling.
- I achieved a perfect score of 100% in an in-depth online training on Core Java, covering fundamental concepts and object-oriented programming.
- Demonstrated practical application of learned concepts by developing a Connect4 game app using JavaFX libraries, showcasing skills in game development and effective utilization of JavaFX libraries.

PROJECTS

01/06/2023 – 30/05/2024
Detection of Kidney Stone using Deep Learning based on CT-scan Images

- Pioneering kidney stone detection in CT scans with 99% accuracy Implementing InceptionResNetV2, ResNet152V2, DenseNet, and EfficientNetB7 to achieve exceptional stone identification and localization within CT images.
- Integrated state-of-the-art models, pushing the boundaries of deep learning for enhanced healthcare solutions.

10/01/2021 – 30/05/2022
Detection of COVID-19 based on Radiological Images using Deep Learning

- Developed a COVID-19 detection project using advanced Deep learning models such as VGG19 and ResNet50.
- Analyzed radiological images to accurately detect COVID-19 using the developed deep learning models.
- Achieved 98% accuracy in COVID-19 detection through the implementation of 5 distinct Deep Learningmodels.

01/05/2023 – 15/06/2023
Credit Card Fraud Detection:

- Utilized logistic regression with SMOTE over-sampling for credit card fraud detection
- Demonstrated effectiveness in accurately identifying positive cases and minimizing the risk of overlooking
- Emphasized the importance of careful data preprocessing and algorithm selection for achieving balanced and accurate predictions

LANGUAGE SKILLS

Mother tongue(s): **OROMO**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
AHMARIC	C2	C2	C1	C2	C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

RELEVANT COURSES

Courses

- Deep Learning
- Machine Learning
- Natural Language Processing
- Software Engineering
- Operating System
- Data Base Management
- Big Data
- Data Analytics

Certificates

Google Data Analytics
Entrepreneurship I
Entrepreneurship II