Eng MOHAMED IBRAHIM ABDI

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in Mohamed Ibrahim Abdi | ○ Mohamed-Qadar |

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OBJECTIVE

I hold a master's degree in Computer Engineering from Fırat University and a bachelor's degree from Karadeniz Technical University. My research mainly focuses on Artificial Intelligence (AI) and Deep Learning, particularly in Image Processing, Natural Language Processing (NLP), and AI in education. I am passionate about leveraging AI techniques to address real-world challenges and enhance human–machine interaction and learning. My aim is to further develop my research and technical skills through innovative studies, collaborative projects, and publications that contribute to both the scientific community and the practical applications of intelligent technologies.

EXPERIENCE

- **Elasoft, trabzon, Türkiye [⊕]**   January 2024 - May 2024
  Intern – Software Developer   Trabzon, Türkiye
  ○ Developed a Real Estate Website project using ASP.NET Core API 8.0 and Dapper, focusing primarily on backend development.
  ○ Designed and implemented a three-layer architecture including Admin Panel, Agent Interface, and User Interface (UI) integrated through a RESTful API.
  ○ Backend:
  ○ Language: C#
  ○ Framework: ASP.NET Core 8.0
  ○ Database Access: Dapper with Microsoft SQL Server
  ○ Frontend:
  ○ Technologies: HTML, CSS, JavaScript, Bootstrap Theme
  ○ Real-time Communication: SignalR for instant messaging

- **Online Instructor (Volunteer)**   Dec,2024 - May 2025
  Remote – Online Training Sessions   Remote
  ○ Conducted online training sessions on Python Programming (Basic Level) for beginner students
  ○ Data Science and Analytics
  ○ Covered key topics such as Scikit-Learn, Supervised Learning (k-NN, SVM, Logistic Regression, Decision Trees, Random Forest, Naive Bayes), and Artificial Neural Networks (ANNs) including architecture, activation functions, and classification methods
  ○ Designed and delivered hands-on exercises and mini-projects to help students apply theoretical concepts in practice.

EDUCATION

- **Fırat University**   September 2024 - 2026
  Master's Student in Computer Engineering   Elazığ, Türkiye
- **Karadeniz Technical University**   July 2024
  Bachelor's Degree in Computer Engineering   Trabzon, Türkiye
- **şeyh sufı İmam Hatıbı**   May 2017
  Secondary Education   Mogadisho, Somali

PROJECTS

○ Digital Accounting Platform Frontend Developer –> ReactJS, TailwindCSS Built a digital accounting tool enabling small businesses, NGOs, and freelancers to generate instant professional PDF reports using 16+ customizable templates. Simplified financial documentation through an intuitive and modern SaaS interface.

○ HealthLink Somalia Full Stack Developer -> Django, HTML, CSS, JavaScript, Bootstrap Developed a public health information platform for Somalia, featuring multilingual support, health article management, and academic resource sharing for medical professionals.

○ Kurban Organization Management Web Application Developed a full-stack web application using Django, HTML, CSS, JavaScript, and Bootstrap for managing sacrificial animal distribution and humanitarian aid operations. Implemented donation tracking, volunteer management, multi-language support, and transparent reporting systems.

- Electrical System Management Platform Full Stack Developer –> Django Backend, Vue.js 3 Frontend Developed a real-time electrical system monitoring and management platform to help engineers analyze and visualize system parameters. Implemented modular APIs using Django REST Framework and interactive dashboards with Vue.js 3. Integrated data visualization for voltage, current, and load metrics to enhance operational efficiency.
- Extractive and Abstractive Summarization Techniques in Somali Language Designed and implemented summarization models for the Somali language using both extractive and abstractive NLP approaches.
- Image Classification using CNN Applied Convolutional Neural Networks (CNNs) for image classification tasks
- Data Analysis Project using the Starbucks Nutrition Facts Dataset (Kaggle), Conducted data preprocessing, visualization, and statistical analysis using Pandas and Matplotlib
- MDocAgent: A Multi-Modal Multi-Agent Framework for Document Understanding Research Project
- Deepfake Video Detection using ResNeXt50 (CNN) and LSTM Research Project,Proposed a hybrid deep learning architecture combining ResNeXt50 and LSTM for temporal feature extraction in video analysis.
- Text Extraction from Images using Hybrid Deep Learning,Designed a hybrid model integrating CNN and OCR-based components to extract text from complex visual scenes

- **Undergraduate Projects**

- Real Estate Website using ASP.NET Core API 8.0 and Dapper,Developed a three-tier real estate web platform (Admin, Agent, API) using C#, ASP.NET Core, Dapper, SQL Server, and SignalR for real-time communication
- Automata Theory Project,Implemented a GUI-based application to convert Regular Expressions (RE) into NFA and DFA using Python.
- Automata Theory Project,Implemented a GUI-based application to convert Regular Expressions (RE) into NFA and DFA using Python,Designed and deployed a responsive website using HTML, CSS, and JavaScript
- Telephone Central Circuit Design Hardware Design Project .Implemented a digital circuit using VHDL to simulate telephone exchange operations
- Employee Health Status Tracking System (COVID-19) Database Project Built a database system for storing and managing employee health records using PostgreSQL and Python
- Weather App and Console Game Development Created a Weather App using Python and Tkinter. Developed a Rock-Paper-Scissors game and a Socket-based messaging application as part of team projects.

PATENTS AND PUBLICATIONS   J=JOURNAL,

[J.1]   Muhammad Ibrahim, Burhan Ergen. (2025). **Facial Expression Based Emotion Recognition**. In *Journal of Electrical Engineering and Computer (JEECOM)* https://doi.org/10.33650/jeecom.v7i1.11069

[J.2]   Nurcan Yardımcı 1, Mohamed Ibrahim Abdi 2, Burhan Ergen 3. (2025). **Hibrit ResNeXt ve LSTM Mimarisi Kullanılarak Deepfake Video Algılama**. *Politeknik Dergisi* https://doi.org/10.2339/politeknik.1721371

SKILLS

- **Programming Languages:** Python , C , C++ , kotlin , C#,PHP,VHDL
- **Hardware Languages:** VHDL
- **Web Technologies:** HTML, CSS, JavaScript, python/Django, ASP.NET Core, Bootstrap
- **Database Systems:** Microsoft SQL Server, PostgreSQ
- **Data Science & Machine Learning:** NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow, Keras
- **Cloud Technologies:** Google Colab, AWS (Basic), Microsoft Azure
- **DevOps & Version Control:** Git, GitHub, Visual Studio Code, Jupyter Notebook
- **Specialized Areas:** Full Stack Development, Artificial Intelligence (AI), Image Processing, Natural Language Processing (NLP), and Deep Learning for Intelligent Systems
- **Other Tools & Technologies:** LaTeX, Overleaf, Canva, MS Office Suite, Google Workspace, Visual Studio
- **Research Skills:** Dataset preparation, , Model evaluation, Academic writing, Literature review, Experiment design, Reproducible research practices