MUHAMMED MUSA

Biomedical Engineer

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Portfolio & Links

Professional Summary

Biomedical Engineer with experience in healthcare technologies, medical devices, data analytics, and AI-assisted systems. Through experience gained in clinical environments, the medical device industry, international consultancy, and international trade, I have taken active roles in technical operations, project coordination, HR support, and operational processes. Leveraging my Arabic and English communication skills in international collaborations, I aim to contribute to projects across diverse industries by combining analytical thinking with a technology-driven approach to deliver practical and value-added solutions.

Education

B.Sc.: Biomedical Engineering (*100% English***)** 2024

Yıldız Technical University – *Graduated*

Skills

- **Biomedical Engineering**

  Medical Imaging, Healthcare AI, Medical Device Development, Clinical Workflow Analysis.
- **Data Analytics**

  SQL, Power BI, Data Visualization, EDA, Predictive Analytics, Decision Support Systems.
- **Programming & AI**

  Python, MATLAB, Pandas, NumPy, TensorFlow, Keras, Scikit-learn.
- **Tools**

  GitHub, Git, Fusion 360, MS 365, Google Workspace, Claude Code, CodeX.

Experience

Project & Operations Assistant *01/2025 - 02/2026*

(Reference Consultancy & Management Development)

- Contributed to international consulting and professional training projects for organizations operating across different countries.
- Supported process coordination, reporting, and documentation for AI-assisted HR assessment and decision support system projects.
- Coordinated communication and project activities between technical, operational, and management teams.
- Assisted in the planning and execution of training programs, workshops, conferences, and corporate events.
- Monitored project progress and collaborated with multidisciplinary teams in the development of technology-driven solutions

Technical Services Assistant (*3G Medikal*) *10/2024 - 12/2024*

- Provided technical support for endoscopy, colonoscopy, and other medical devices.
- Assisted with device maintenance, troubleshooting, and customer support processes.
- Collaborated with healthcare professionals to identify operational and technical requirements.
- Supported sales and after-sales technical service activities.

Biomedical Engineering Intern (*3G Medikal*) *09/2024 - 10/2024*

- Observed technical service processes for endoscopy systems and other medical devices.
- Assisted with device maintenance, troubleshooting, and technical documentation activities.

Foreign Patients Department (*ISOM Orthopedics*) *08/2023 - 12/2023*

- Coordinated communication and operational processes for international patients.
- Facilitated collaboration between patients, physicians, and administrative teams.
- Supported documentation, reporting, and process-tracking activities.
- Understanding of healthcare systems from both technical and patient-centered perspectives.

Biomedical Engineering Intern (*ISOM Orthopedics*) *07/2023 - 08/2023*

- Observed orthopedic treatment and rehabilitation processes in a clinical environment.
- Gained practical experience in clinical workflows and patient management processes.

Projects

Healthcare Readmission Risk Analysis

- Developing a machine learning-based healthcare analytics system to predict patient readmission risks using structured clinical datasets.
- Applying data preprocessing, exploratory data analysis, feature engineering, and predictive modeling techniques.
- Focused on supporting healthcare decision-making through data-driven insights.

AI-Powered Hospital Decision Support Dashboard

- Designing an interactive healthcare analytics dashboard integrating operational KPIs, patient risk indicators, and decision support metrics.
- Utilizing healthcare data visualization and AI-assisted insights to support hospital management processes.
- Focused on improving operational efficiency and data-driven decision-making within healthcare environments.

ML & DL for Alzheimer's Disease Classification

- Developed a Convolutional Neural Network (CNN) to classify Alzheimer’s disease stages using MRI datasets from ADNI and OASIS.
- Performed data preprocessing, augmentation, model training, and performance evaluation.
- Achieved over 90% classification accuracy using Python-based deep learning tools.

Languages

Arabic: Native

English: Professional (C1)

Turkish: Professional (C1)