

MUHAMMED DELE

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Software Engineer

Innovative Software Engineer with expertise in AI-driven solutions and full-stack development. Skilled in building robust web applications using Angular and .NET while also leveraging machine learning, NLP, and neural networks to solve complex problems. Adept for designing scalable systems, optimizing performance, and utilizing explainable AI (XAI) techniques to enhance decision-making. Passionate about integrating cutting-edge technologies to deliver impactful solutions across diverse domains.

Projects

◆ Internship Management System Team Project

- developed a user-friendly platform to manage internships, incorporating secure authentication, real-time tracking, and robust reporting features.
- Delivered the project 15% ahead of schedule, improving operational efficiency by 20%.

◆ Arabic Text Summarization | Team Project

- Built a deep learning model using Recurrent Neural Networks (RNN) to summarize Arabic text with high precision.
- Trained and fine-tuned the model, achieving an F1-score of 85% on diverse text datasets.

◆ E-Commerce Website | Academic Project

- Designed and implemented a full-stack e-commerce platform using Django, featuring secure user authentication, product management, and payment integration.
- Enhanced user experience by implementing a responsive UI and achieving a 25% increase in transaction efficiency.

◆ Convolutional Neural Network | Academic Project

- Developed and fine-tuned a CNN model for image classification, increasing classification accuracy by 15%.
- Improved model performance by identifying and addressing bottlenecks and reducing error rates by 10%.

◆ MVC .Net Projects | Personal Projects

- Developed multiple web applications using the MVC architecture, ensuring scalability and maintainability.
- Leveraged .NET technologies to create secure data-driven solutions with a focus on efficient code organization.

◆ Spring Boot Projects | Personal Projects

- Designed and implemented RESTful APIs using a Spring Boot for secure backend services.
- Developed applications with efficient data management and authentication systems, enabling seamless frontend-backend interaction.

◆ Restaurant Application | Personal Project

- Created an interactive restaurant application using Angular, enabling seamless browsing of menus and placing orders.
- Delivered an intuitive user interface, reducing customer interaction time by 20%.

◆ Machine Learning Classification Project | Academic Project

- Implemented decision tree models for classification tasks, optimizing accuracy through hyperparameter tuning.
- Collaborated with a team to achieve a robust classification system, improving performance metrics by 30%.

PROFESSIONAL EXPERIENCE

Research and Development

Jun 2024 - Now

Mobilab and Care – Belgium

www.thomasmore.be/en/exp-zw/mc

- ◆ Conducted research on Large Language Models (LLMs) to extract PICO-related keywords in iCARE4CVD, increasing keyword extraction accuracy by 25%.
- ◆ Designed advanced 3D visualizations demonstrating the relationship between time, risk, and drug-drug interactions (DDI) on heart failure, enabling actionable clinical insights and improving risk assessment efficiency by 30%.

- ◆ Developed predictive models for longitudinal datasets, achieving ~90% accuracy with high ROC AUC scores, validating their reliability in heart failure risk prediction.
- ◆ Designed and deployed a user-friendly Streamlit app for interacting with clinical prediction models, enhancing usability and accessibility for non-technical stakeholders.
- ◆ Streamlined AI workflows using DeployKF and Kubernetes, reducing deployment time for AI models by 40% and improving scalability and performance.
- ◆ Applied explainable AI (XAI) techniques to analyze GRU model predictions for cholesterol levels, enhancing model transparency and trust for clinical decision-making.

Full-Stack Engineer

Jun 2023 - Jan 2024

Digital Minds(Indiana) – Remote – Saudi Arabia

www.indana.io

- ◆ **Front-End Development:**
 - Built dynamic web interfaces using Angular, increasing user engagement by 20%.
 - Streamlined data handling with NgXs for efficient state management, reducing front-end data access time by 25%.
 - Optimized page load times, achieving a 30% performance improvement.
- ◆ **Back-End Development:**
 - Developed and maintained secure, scalable systems using .NET technologies, reducing data retrieval times by 15%.
 - Created RESTful APIs to enable efficient communication between front-end and back-end systems, improving response times by 10%.
 - Conducted testing and debugging to ensure system reliability and performance, maintaining 99.9% uptime.

SOFTWARE SKILLS

- ◆ **Programming Languages:** Python, Java, C#, TypeScript, SQL
- ◆ **Front-end:** Angular, HTML5, CSS3, JavaScript
- ◆ **Back-end:** .NET Core, Spring Boot, Django, RESTful APIs
- ◆ **AI/ML:** TensorFlow, PyTorch, Neural Networks, NLP, LLMs
- ◆ **DevOps & Tools:** Docker, Azure, Git, DeployKF, Kubernetes
- ◆ **Database:** MS SQL, MongoDB

EDUCATION and TRAINING

- ◆ **Üsküdar University | B.Sc. in Software Engineering | Istanbul, Türkiye**
 - GPA: 3.71 | Relevant Courses: Data Mining, Artificial Neural Networks, Data Science
- ◆ **Thomas More University of Applied Sciences | ERASMUS Scholarship | Belgium**
 - Relevant Courses: Java advanced, Artificial Intelligence, business processes & ITIL, UML, .NET
- ◆ **C# .NET Core 7 with MS SQL Complete Beginner to Master (Udemy)**
- ◆ **Intermediate Machine Learning(Kaggle).**
 - Gained expertise in handling missing data, pipelines, cross-validation, XGBoost, and preventing data leakage.
- ◆ **Large Language Models (LLMs) Engineering (Udemy)**
 - Covered transformer architectures, fine-tuning, prompt engineering, retrieval-augmented generation (RAG), and deployment.

VOLUNTEER & COMMUNITY

- ◆ Mentored with positive psychology training, offering valuable advice for mentees' personal growth.
- ◆ Technology Student Organization that provides personal growth, leadership, and learning opportunities in technology, innovation, design, and engineering. Members apply and integrate STEM concepts through hands-on activities.

PERSONAL INFORMATION

- ◆ Turkish, 01/01/1993.
- ◆ Languages: Arabic (Native), English (Fluent), Turkish (Work proficiency).