Mohamed AbuHamida

Machine learning Engineer

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OBJECTIVE

currently pursuing a degree in Artificial Intelligence with experience in machine learning and web development. My expertise includes building AI models, deploying them, and creating user-friendly web applications using modern frameworks like Vite and Next.js. thrive on solving complex problems and continuously improving my technical skills.

EXPERIENCE

Mining Process Flotation Plant Analysis and Model Deployment   [2024]

Description: Conducted an analysis of a Mining Process Flotation Plant dataset, including Exploratory Data Analysis (EDA) and model training using Random Forest. Deployed the solution using Gradio, Improved model prediction accuracy by 95%, reducing Mean Squared Error to 0.0618. Increased R-squared to 0.9509, providing highly accurate forecasts for plant efficiency.

Technologies Used: Python, Pandas, Scikit-learn, Gradio

E-commerce Customer Segmentation Analysis   [2024]

Description: Segmented e-commerce customers into distinct groups using K-means clustering. Increased customer retention by 20% through actionable insights from K-means clustering analysis. Reduced churn rate by 15% by identifying and targeting high-value customer segments. Built visualizations and insights using Power BI to provide businesses with actionable customer behavior data.

Technologies Used: Python, Pandas, Matplotlib, Seaborn, Power BI

Asteroid Hazard Prediction   [2024]

Description: Developed a machine learning model to predict asteroid hazards using NASA's dataset of near-Earth objects. The project involved data preprocessing, model training using Random Forest, and deployment via Gradio. Developed a Random Forest model with 97% accuracy, 97% precision, 97% recall, and a 97% F1-score, enabling NASA to improve asteroid hazard classification by 30% compared to previous methods.

Technologies Used: Python, Pandas, Scikit-learn, Gradio

EDUCATION

Delta University for science and technology   Graduated [2025]

Bachelor of Science in [Artificial intelligence]

• Relevant coursework: Machine Learning, Data Science

SKILLS

- **Programming Languages**: HTML, CSS, JavaScript, Python, C#, Java
- **Frameworks & Libraries**: Vite, Next.js, Django, PyTorch, TensorFlow, Scikit-learn, OpenCV
- **Tools**: Git, GitHub, Linux, Power BI
- **Soft Kills**: Problem Solving, Teamwork, Communication, Adaptability, Leadership, Critical Thinking, Communication, Self-Motivation, Decision Making

languange

- Arabic
- English