AHMED FOUAD HASHEM

+20 1096599026

Data Analyst | Applied AI & Machine Learning Specialist
Al Mansoura, Egypt

hashemkic@gmail.com
linkedin.com/in/hashemili/
GitHub | Kaggle

SUMMARY

Data Analyst and Applied AI Specialist with 9+ months of intensive hands-on training at Digilians (Egyptian Military Academy). Experienced in building end-to-end Machine Learning pipelines, statistical modeling, and data visualization. Proficient in Python, SQL, TensorFlow, Scikit-Learn, Pandas, and NumPy. Skilled in transforming complex data into actionable business insights to support data-driven decision-making and optimize performance.

TECHNICAL SKILLS

- Programming & Databases: Python, SQL, Excel
- Data Analysis & Visualization: Exploratory Data Analysis (EDA), Data Cleaning & Preprocessing, Power BI, Tableau, Matplotlib, Seaborn
- Machine Learning & AI: Supervised Learning (Regression, Classification), Unsupervised Learning (Clustering), Deep Learning, Artificial Neural Networks (ANN), Model Evaluation & Hyperparameter Tuning
- Frameworks & Libraries: Pandas, NumPy, Scikit-Learn, TensorFlow, Keras, PyTorch
- Core Concepts: Feature Engineering, Statistical Analysis, Data Modeling, Predictive Analytics, NLP Fundamentals

SOFT SKILLS

- Logical & Analytical Thinking – Strong problem-solving with data-driven reasoning
- Effective Communication – Present technical findings clearly to non-technical stakeholders
- Team Collaboration – Experienced working in multidisciplinary teams
- Adaptability – Quick to learn new tools, frameworks, and methodologies

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EXPERIENCE

Applied AI & Data Analytics Trainee

Digilians – Egyptian Military Academy | 9 Months

- Designed and deployed 10+ end-to-end ML pipelines, handling datasets up to 100K+ records, including preprocessing, feature engineering, and model evaluation.
- Built and optimized 10+ predictive models (Random Forest, Logistic Regression, ANN), achieving up to 98% classification accuracy.
- Improved model performance by 15–20% through hyperparameter tuning, cross-validation, and regularization techniques.
- Reduced data preprocessing time by 30% by automating cleaning and transformation workflows using Python (Pandas & NumPy).
- Conducted statistical analysis and hypothesis testing on real-world datasets, improving business decision accuracy by 25%.
- Developed 10+ analytical reports and interactive dashboards using data visualization tools to support data-driven decision-making.

PROJECTS

Taxi Fare Estimation System (Deep Learning) 🔗

Technologies: Python, TensorFlow, Keras

- Designed and implemented an Artificial Neural Network (ANN) for fare prediction.
- Applied Batch Normalization and Dropout to improve generalization and convergence speed.
- Performed extensive data preprocessing and feature scaling.
- Achieved high predictive accuracy using regression evaluation metrics (MAE, RMSE).

Titanic Survival Prediction (Classification) 🔗

Technologies: Python, Scikit-Learn

- Conducted in-depth EDA to identify key survival factors.
- Applied advanced feature engineering (Family Size, Title extraction).
- Implemented data imputation and categorical encoding.
- Trained and evaluated multiple models including Logistic Regression and Random Forest.

Customer Feedback Analysis System (NLP)

- Processed and cleaned unstructured textual data.
- Applied CountVectorizer for feature extraction.
- Built classification model for sentiment analysis.
- Extracted actionable insights from customer reviews.

EDUCATION

Bachelor of Management Information Systems (MIS)
Delta University, Egypt
2019 – 2023

CERTIFICATIONS

Machine Learning Specialization
Stanford University & DeepLearning.AI – Feb 2025

Google Advanced Data Analytics Professional Certificate
Google – July 2024

Google Data Analytics Professional Certificate
Google – Dec 2023

Professional Soft Skills Learning Pathwa
LinkedIn – Mar 2024

LANGUAGES

Arabic: Native
English: Professional Proficiency