Huseyn Mammadov

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WORK EXPERIENCE

Computer Vision Specialist

SKY-X [07/2024 – Current]

City: Baku

- Developed and implemented drone vision systems for real-time object detection and tracking using YOLO (You Only Look Once) models.
- Utilized TensorFlow and PyTorch frameworks to design, train, and optimize deep learning models for aerial surveillance tasks.
- Integrated OpenCV for image processing tasks such as edge detection, image filtering, and object contour analysis in drone vision systems.
- Worked on enhancing model accuracy and speed for onboard real-time processing of visual data from drones.
- Collaborated with cross-functional teams to integrate computer vision algorithms into drone hardware for real-time decision-making.
- Conducted extensive testing and validation of drone vision systems in various environmental conditions to ensure reliability and robustness.
- Continuously researched and implemented state-of-the-art advancements in computer vision and deep learning technologies for drone applications.

Data Science Instructor

Div Academy [05/2024 – Current]

City: Baku | **Country:** Azerbaijan

- Delivered engaging lectures and practical sessions on core data science topics, including statistics, machine learning, and data visualization.
- Created interactive coding exercises and projects to reinforce theoretical concepts with hands-on practice.
- Assisted students with technical queries and provided personalized feedback on complex data science methodologies.
- Held regular office hours and one-on-one mentoring sessions to support student learning and professional development.
- Evaluated student performance through quizzes, assignments, and projects, offering constructive feedback for improvement.
- Taught foundational and advanced SQL, Python frameworks (pandas, NumPy, scikit-learn), and deep learning with TensorFlow and Keras to equip students with practical data science skills.

Data Analyst

Holiday in Azerbaijan LLC [01/2023 – 10/2023]

City: Baku | **Country:** Azerbaijan

- Developed and maintained interactive dashboards using Tableau and Power BI to provide real-time insights into KPIs, sales trends, and operational metrics for data-driven decision-making by senior management.
- Conducted ANOVA to identify significant differences between group means in datasets, aiding in the comparison of marketing strategies and understanding customer behavior patterns.
- Performed comprehensive statistical analyses with R and Python, including hypothesis testing, regression analysis, and descriptive statistics, to uncover meaningful data patterns and correlations.

- Utilized clustering techniques like K-means and hierarchical clustering to segment customers based on purchasing behavior, resulting in a **4% increase** in sales through tailored marketing campaigns.
- Collaborated with cross-functional teams to develop customer-oriented business solutions by analyzing feedback, identifying pain points, and proposing recommendations to enhance service delivery and product offerings.

Data Analyst

Young for Public Transport - Y4PT Baku [07/2020 – 11/2021]

City: Baku | **Country:** Azerbaijan

- Performed data preprocessing to clean and prepare datasets for analysis, ensuring data quality and consistency.
- Conducted exploratory data analysis (EDA) to identify patterns, trends, and relationships within the data.
- Created data visualizations to effectively communicate insights and findings to stakeholders using tools like Tableau and Power BI.
- Generated comprehensive reports detailing analytical results and recommendations for business improvements.
- Executed database queries to extract and manipulate data for various analytical tasks and projects.

DIGITAL SKILLS

Technical Skills

Computer VIsion / Convolutional Neuronal Networks / OpenCV / Object Detection / Data Augmentation / Recurrent Neural Network / Machine Learning, NLP / Deep Learning frameworks: Pytorch, Tensorflow, Keras / Supervised Machine Learning: Regression and Classification / Unsupervised Machine Learning (Clustering, Dimensionality Reduction) / Scikit Learn / Python / NumPy / Pandas / Matplotlib / Seaborn / Data Visualization (Tableau, Power BI) / R / PostqreSQL / Powerpoint / Microsoft Word / Excel / Web scraping / Statistical Analysis / Data Processing / Git Hub / Google Spreadsheet

Soft Skills

Presentation skills / Adaptability / Leadership / Time management / Communication / Problem solving / Team-work and Collaboration / Critical thinking

EDUCATION AND TRAINING

Data Science

Div Academy [11/12/2023 – Current]

City: Baku | **Country:** Azerbaijan

Economical Administration

The Academy Of Public Administration Under The President Of The Republic Of Azerbaijan [15/09/2023 – Current]

City: Baku | **Country:** Azerbaijan

Economics

The Academy Of Public Administration Under The President Of The Republic Of Azerbaijan [15/09/2019 – 14/06/2023]

City: Baku | **Country:** Azerbaijan

LANGUAGE SKILLS

Mother tongue(s): Azerbaijani

Other language(s): English - C1 | German - C1 | Turkish - C1

HONOURS AND AWARDS

[29/07/2024] DeepLearning.AI

Convolutional Neural Networks

Link: https://coursera.org/share/e404abea4791fb6efc11bbd93f652681

[22/06/2024] DeepLearning.AI

Machine Learning

Link: https://coursera.org/share/49f40d7fde0f07813a85909d6affde47

PROJECTS

[05/2024 – 08/2024]

Brain Tumor Classification and Object Detection Using Deep Learning *Developed a comprehensive solution for brain tumor classification and object detection leveraging advanced deep learning techniques. The project involved implementing convolutional neural networks (CNNs) and state-of-the-art models like ViT and YOLO for accurate tumor classification and precise localization. Key components included data preprocessing (e.g., normalization, augmentation), model training, hyperparameter optimization, and performance evaluation using metrics such as accuracy, precision, recall, and F1 score. The solution integrates object detection frameworks to highlight and classify tumor regions effectively.*

Link: https://github.com/databyhuseyn/DeepLearning/blob/main/Brain_Tumor_Classification_and_Detection_with_Cutting_Edge_Models.ipynb