Alexi Kehayias

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EDUCATION

BREDA UNIVERSITY OF APPLIED SCIENCES

COURSEWORK

- Data Analytics(Power BI), Data Science, Data Engineering, Business Intelligence (BI), Data Governance and Ethics, Communication and Storytelling.
- CRISP-DM, SCRUM, MLOps, Automation.
- Machine Learning, Deep Learning, Neural Networks (NN), Convolutional Neural Networks (CNN), Transfer Learning Computer Vision, Natural Language Processing, SQL.

PROJECTS

BUAS INNVOATION SQUARE SDG GOALS- DASHBOARD (DATA ANALYTICS)

Developed a dashboard to Designed tosupport public health decision-making by analysing TB trends within and around Zimbabwe by using regional benchmarking against Southern Africa and tracks progress toward SDG 3 goals.

IKEA CARD SKIMMING DETECTION DASHBOARD(DATA ANALYTICS)

Developed Power BI dashboard for monitoring payment terminal redeployment at IKEA Breda, enabling tracking of terminal movements, employee behavior analysis, and identification of security risk hotspots.

NPEC- INSTANCE SEGMENTATION IN PLANT ROOT MEASURING (COMPUTER VISION & ROBOTICS)

Developed a computer vision and robotics pipeline with use of reinforcement learning for segmentation of plant roots from petri dish images and controlling a robot to innoculate identified plant seeds in precise locations.

EMOTION CLASSIFICATION FOR CONTENT INTELLIGENCE AGENCY(NLP, TRANSLATION)

Developed an emotion classification pipeline which uses speech-to-text conversion, and NLP to predict and tag emotions expressed in sentences from Greek Reality TV shows, translating the Greek sentences to English.

AUTOMATED COMPUTER VISION MODEL DEPLOYMENT(CV, AZURE, AIRFLOW, MLOPS)

Developed an automated MLOps pipeline on Microsoft Azure for deploying and monitoring the computer vision model from the NPEC project, integrating continuous re-training and further modelaccuracy of primary root length measurements.

Skills

- Programming & Libraries: Python (Pandas, Numpy, TensorFlow, Keras, Scikit-learn, PyTorch)
- Data Visualization & Analysis: Power BI, Seaborn, Plotly
- Natural Language Processing (NLP): NLTK, spaCy, Transformers
- Computer Vision: CNNs, Transfer learning
- Data Engineering & Databases: SQL, Azure, Airflow, Model Deploymemt
- Methodologies & Soft Skills: CRISP-DM, Agile (Scrum), Data Storytelling, Responsible AI, Unit Testing