Aleandro Presta

Date of birth: 24/07/1996 | **Nationality:** Italian, German | **Gender:** Male | **Phone number:** (+39) 3455770415 (Mobile) | **Phone number:** (+43) 67761639121 (Mobile) | **Email address:** aleandro.presta@outlook.com | **Website:** https://github.com/AleandroPresta | **Website:** https://www.linkedin.com/in/aleandro-presta-6523471b9/

WORK EXPERIENCE

2015 – CURRENT Rende, Italy
UNIVERSITY RESEARCH ASSISTANT UNIVERSITÀ DELLA CALABRIA

EDUCATION AND TRAINING

09/2020 – 04/2024 Rende, Italy
MASTER'S DEGREE IN SOFTWARE ENGINEERING Università della Calabria

09/2015 – 09/2020 Rende, Italy
BACHELOR'S DEGREE IN SOFTWARE ENGINEERING Università della Calabria

LANGUAGE SKILLS

Mother tongue(s): **ITALIANO**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	B2	B2	B2
GERMAN	A2	A2	A2	A2	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Programming Languages

Java | Python | Scala | C

Web Development

Django | Bootstrap | JavaScript | HTML

Frameworks and Libraries

Apache Spark | Tensorflow | PyTorch | Scikit-learn

Databases

PostgreSQL | MySQL

Tools

Linux | Docker | Git

PROJECTS

Articles Web Application (HTML, CSS, JavaScript, Bootstrap, Python, Django)

- Developed a web application using Django and Bootstrap for seamless user registration, authentication, and article management.
- Implemented responsive design principles with Bootstrap to ensure optimal performance across various devices and screen sizes.
- Enabled users to create, edit, and delete articles, enhancing content management capabilities
- Enabled users to comment articles to foster user engagement and interaction.

Link https://github.com/AleandroPresta/articles-webapp

09/2023 – 11/2023
Face Generation through Diffusion Models (Python, PyTorch)

- Conducted a thorough review of existing literature and research on diffusion models and their applications in image synthesis, laying a solid theoretical foundation for the project.
- Implemented a Diffusion Model in PyTorch to generate lifelike human faces, leveraging a dataset of 10,000 images.

02/2023 – 03/2023
Deep Learning Predictor for Fungus Image Classification (Python, Tensorflow, Keras)

- Developed an advanced deep learning model using TensorFlow for classifying fungus images into ten categories.
- Prepared and preprocessed the dataset, including resizing, normalizing, and augmenting images to enhance model generalizability.
- Built a CNN by extending pre-trained models VGG16 and ResNet50 using transfer learning to improve classification accuracy.

05/2021 – 06/2021
Predictive Modeling for Heart Disease (Python, NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn)

- Conducted an in-depth analysis of a dataset containing diverse patient information using NumPy and Pandas, including data cleaning, preprocessing, and feature engineering to extract key insights related to cardiovascular disease risk.
- Utilized Matplotlib and Seaborn to present analysis results through histograms, box plots, heatmaps, and scatter plots, identifying patterns and correlations.
- Trained several machine learning algorithms with Scikit-learn, including Decision Trees, Random Forest, Logistic Regression, SVM, KNN, and Naive Bayes, involving data splitting and hyperparameter tuning for optimal performance.
- Evaluated models using performance metrics such as Accuracy, Precision, Recall, and F1-Score, with Cross-Validation and ROC Curves/AUC to ensure robustness and effective classification.
- Compared model performance to identify the best one, validated the final model on a separate validation set to ensure generalizability.

PUBLICATIONS

2024

L. Belcastro, F. Marozzo, A. Presta, D. Talia, "A Spark-based Task Allocation Solution for Machine Learning in the Edge-Cloud Continuum". 20th International Conference on Distributed Computing in Smart Systems and the Internet of Things (DCOSS-IoT), 2024