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Machine Learning Engineer | Data Scientist | Software Developer | Web Developer

Machine Learning Engineer with a successful transition from a software developer background. Throughout my learning journey, I have utilized frameworks and libraries such as **Numpy**, **Pandas**, **PyTorch**, **TensorFlow**, **Keras, Scikit-learn**, and programming languages including **Python** and **Java** in my projects. Leveraging a strong foundation in software development acquired during my tenure as a Systems Engineer, I have seamlessly integrated my skills in the field of machine learning to execute various projects and solutions. Throughout my career, I have actively participated in research projects, notably including medical image segmentation for COVID-19 detection in collaboration with the University of Oklahoma, showcasing my competency in constructing and implementing machine learning models. Additionally, I served as a junior researcher at the CiTeSoft Research Center for one year, where I successfully published a research article. My experience as a junior developer at MicroData has also provided me with a profound understanding of the software development lifecycle, where I designed microservices for technical appointment management in the automotive sector, utilizing technologies such as **Spring**, Java, and **Angular**. Furthermore, I have developed the ability to collaborate effectively with multifunctional teams and work within agile methodologies such as Scrum. This experience has honed my problem-solving abilities, enabling me to analyze complex datasets and develop efficient algorithms for extracting valuable insights. Moreover, I possess a natural curiosity and a passion for learning, which has allowed me to stay abreast of the latest advancements in my field.

Work Experience

Computer Science AI Training   Ago 2023 to Dec 2023

- **QA at Scale AI:** Reviewed prompt responses for training LLM's models for different clients.

Machine Learning Engineer at Anyone AI   Mar 2023 to Ago 2023

- **E-commerce Data Analyst:** Analyzed data from an E-commerce company to gain fundamental insights into sales and product delivery performance. I obtained reports on top-selling products, popular product categories, profit analysis by location, and delivery evaluations using actual and estimated delivery dates. This analysis was conducted using SQL, Pandas, and Python tools.

- **Credit Risk Analyst:** Developed classification models for a credit risk analysis project, focusing on applicants with potential payment delays. I created a controlled flow with ETL development, establishing a pipeline for data cleaning and normalization, as well as the creation and evaluation of models using appropriate metrics for data imbalance, such as Confusion Matrices and Precision-Recall Curves. Additionally, I used version control and reporting tools such as DVC and MLFlow for multiple tests and comparisons. Lastly, I collaborated on a web interface using FlaskAPI for the creation of endpoints.
- **Image Classification System:** Completed an image classification project, applying Transfer Learning concepts to a pre-trained ImageNet network and implementing a convolutional CNN with TensorFlow. I designed a web interface using Flask API to create endpoints utilizing the services of the trained network, isolating each service through Docker containers and communicating them with Redis. During the experiments, I generate graphical reports for Hyperparameter Tuning using WandB to select the best model. Finally, I conducted load tests using Locust to verify the model's response time to multiple requests

- **AWS, GCP experience:** Having a minimal experience with AWS, including familiarity with services such as EC2, S3, and Lambda. I also have experience with GCP, using services like VertexAI for the deployment of the developed models

Main Technologies: Python, Pandas, Scikit-learn, Keras, TensorFlow, NumPy, PyTorch, AWS, GPC, SQL, Docker

Career Break   Jul 2022 to Mar 2023
- During this period, I have been actively pursuing professional development in topics such as Deep Learning, and software skills.

Software Developer at Microdata   May 2022 to Jul 2022
Peruvian company specializing in software development and IT services, boasting a highly experienced team in Software Engineering.

- Developed microservices for Comsatel, a company dedicated to the management and control of vehicles through satellite tracking. I worked on the backend using **Java** language and the **Spring** framework to create DTOs with the respective endpoints.

- Created documentation using **SwaggerAPI,** conducting API testing across different layers of the application.

- Developed the microservices in the modules for technical appointment management, schedule planning, and procurement of devices across various categories. Additionally, I worked with **SCRUM** for the project's development.

Main Technologies: Java, JPA, Spring, Docker, JTest, Swagger, SCRUM

Software Developer at Global System   Jun 2017 to Sep 2017
A company providing information technology services
- Developed features for SIGESMED Project: Enhancing Educational Management and Oversight for Educational Institutions, Ugel, and the Regional Directorate of Education in the Moquegua Region. It

manages the educational resources in Moquegua Schools.
- I made a client-server module using Java and Angular.JS in the SIGESMED system, preparing requirements and documentation in the initial stages of the project and building crud operations and views in the file repository for school documents.

Main Technologies: Javascript, Java, Angular, Jquery

Other work experience

R&D Engineer at Citesoft   Jan 2018 to Dec 2021
Research Center, Technology Transfer, and Software Development.
- Worked as a junior researcher for 1 year, during which I published research articles on medical image reconstruction. Additionally, I collaborated on a research project with the University of Oklahoma during the pandemic, focusing on the segmentation of thoracic medical images.

- Utilized technologies and libraries for medical image management such as **ITK**, **ScikitLearn**, **PyTorch, Matplotlib**, and programming languages such as **Python** and **C++** for application development.

- Furthermore, designed medical devices using 3D modeling software like Blender and printing software like Raise3D. I also contributed to the development of patents. Some of the designs I worked on included blades for video laryngoscopes, prototypes of CPAP rings, and facial protectors.

Main Technologies: C++, Python, ITK Toolkit, Scikit-Learn, Pytorch, Matplotlib.

Skills

Frameworks Skills: Numpy, Pandas, PyTorch, TensorFlow, Keras, Scikit-learn, ITK, Spring, Angular, T-SQL
Language Skills: Python, Java, C++, Javascript
Agile Methodologies: Scrum
Languages: Spanish - Native, English - Intermediate B1.

Education

San Agustin University   Jan 2022 to date
Master in Computer Science
San Agustin University   Apr 2020
Systems Engineer

Courses and Extracurricular Education

Smart Data   2024
Especialización de DevSecOps con Microsoft Azure
Smart Data   2024
Especialización de Ingeniería de Datos e IA con Azure

Databricks   2024
Databricks Fundamentals Accreditation
Anyone AI   2024
Master the Coding Interview
Smart Data   2024
Análisis de Datos con SQL
Anyone AI   2022
Developing LLM-Based Apps
Coursera   2024
Generative AI with Large Language Models
Platzi   2022
Fundamentals in Javascript
Platzi   2022
Introduction to React
Platzi   2022
Introduction to Java SE
Deep Learning Institute   2022
Specialization in Fundamentals of Deep Learning