**ARBAAZ ALI**

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**AI ENGINEER | PYTHON DEVELOPER**

**Professional Summary:**

Master’s student in AI and Data Science with hands-on experience developing AI-driven systems, specializing in machine learning, deep learning, and web app development. Expertise in backend integration of AI models and frontend interface design using Python frameworks.

**EDUCATION**

**Double Degree Masters in Data Science and Artificial Intelligence** 08/2023 – Continued  
École Centrale de Nantes, France | University of Trento, Italy

Recipient of the EIT Manufacturing Scholarship, awarded for academic excellence and potential in innovation for the manufacturing industry

**WORK EXPERIENCE**

**MAQSOODLABS.COM** **-** *Lahore, Pakistan* 02/2022 – 08/2023

**Python Developer / AI Engineer**

* Developed a Python-based automation tool that processes 10,000+ articles monthly, improving data extraction efficiency and enabling the use of Generative AI for business applications.
* Created a BERT-based clustering algorithm with 85% accuracy to categorize articles, showcasing expertise in NLP, large language models (LLMs), and semantic analysis for data-driven solutions.
* Built and deployed a personalized recommendation system using Doc2Vec and external APIs, boosting user engagement by 20%. Collaborated with cross-functional teams to ensure alignment with business goals and AI-driven optimizations.

**PERSONAL PROJECTS**

**AI-Powered Resume Ranking Web App:**

Developed a Dockerized web app integrating NLP techniques (TF-IDF, Doc2Vec, BERT) to rank resumes based on job descriptions. Built using Django and PostgreSQL, demonstrating full-stack AI web development skills.

**NLP: InsightRetriever**

Developed a research chatbot using Retrieval-Augmented Generation (RAG) methodologies with LangChain, FAISS, and Streamlit for the UI, extracting real-time insights and showcasing expertise in deploying AI-driven data extraction and document intelligence.

**Machine Learning: Credit Risk Prediction Model:**

* Built machine learning models (Logistic Regression, Decision Trees, Random Forests) to predict loan defaults. Addressed class imbalance using SMOTE, and evaluated models using ROC-AUC and precision-recall metrics.

**PROFESSIONAL SKILLS**

* **AI and Machine Learning**: BERT, Doc2Vec, scikit-learn, Time-series forecasting, Model Evaluation, TensorFlow, Keras, PyTorch, Deep Learning, LLMs, NLP Techniques (Information Extraction, Text Similarity), Model Prototyping,
* **Data Visualization & Analytics:** Python (Matplotlib, pandas), Power BI, SQL, ETL Processes
* **Development Technologies**: MySQL, PostgreSQL, AWS, GCP, Docker, SQL Alchemy, Django, REST, Streamlit, Flask, HTML, CSS, Docker, PostgreSQL, MySQL, AWS, GCP, Git, CI/CD
* **Project Management**: Agile, Scrum, Jira, Project Planning
* **Interpersonal Skills**: Leadership, Communication, Problem-Solving, Detail-Oriented, Team Collaboration.

**Training and Certifications**

* **Google Cloud Big Data and Machine Learning Fundamentals** 03/2024
* **ARTIFICIAL INTELLIGENCE AND MACHINE** **LEARNING** *- PU Lahore* 06/2021- 01/2022
* **MICROSOFT-CERTIFIED AZURE AI FUNDAMENTALS (AI-900)** 07/2021

**LANGUAGE COMPETENCIES**

English | French| Urdu