Asadbek Iskandarov (Data Scientist)

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SKILLS & LANGUAGES

Proficient: Data Analysis, Statistical Modeling, Machine Learning, Predictive Analytics, Data Structures&Algorithms.

Programming languages: Python, SQL, R (Basic), JavaScript, Java, C.

Tools & Libraries: Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, TensorFlow, FastAI, PyTorch,XGBoost.

Additional Skills: Relational Databases (SQL), Data Preprocessing, Exploratory Data Analysis (EDA).

EXPERIENCE

Team Member - DRones Autonomous Flight Team (DRAFT), Politecnico di Torino *Nov 2024 - Present*

- Collaborated with engineers and researchers to develop and deploy machine learning and computer vision algorithms for **autonomous drone navigation,** leveraging deep learning **(CNNs)** and **reinforcement learning** for real-time decision-making and collision avoidance.
- Integrated AI models into embedded drone systems, utilizing **Python, TensorFlow,** and **OpenCV** for testing and optimization of flight paths, sensor fusion, and automation in dynamic environments.

Data Scientist, Internship - Talent Acquisition Partners *Oct 2024 - Dec 2024*

- Automated a data entry process for over **1,000 m**onthly entries in **Google Sheets** using **Apps Script,** achieving near **100% accuracy** and saving **20+ hours weekly.**
- Built integration pipelines between **Google Sheets** and **HubSpot CRM** to synchronize **1,000+** data points in real time, ensuring **zero discrepancies** and reducing operational costs.
- Developed an **AI-powered candidate ranking system** using a dataset of **30,000+ CVs,** automating evaluation and reducing manual screening time.
- Preprocessed data using **Python, Pandas** and **NumPy** to prepare datasets for machine learning; fine-tuned various **LLMs**, including **LLAMA2 and MiniLM** with score based dataset resulting in recruitment recommendations that improved candidate match **accuracy by 40%.**

PROJECTS

Multiclass Audio Classification Model

- Designed and implemented a **CNN-based audio classification system** with over **50 classes,** utilizing **40 MFCC parameters** and training on **100 hours of audio (20,000+ files),** including **noise-augmented data.**
- Achieved **85% accuracy** with a custom model and **98% accuracy** using the pre-trained **SpeechBrain model,** fine-tuned over **50 epochs** with **5-fold cross-validation** and **early stopping**
- Optimized the system for **real-time inference**, enabling seamless integration into **mobile apps** for audio analytics.

Airplane ticket prediction

- Conducted **exploratory data analysis (EDA)** on a **20,000-entry dataset** with 12 features using **Pandas, Matplotlib, and Seaborn** uncovering key distributions, correlations, and outliers.
- Developed and evaluated multiple regression models, with **Random Forest Regression (RFR)** achieving the best performance **(RMSE: 4437.30, MAE: 2468.16).**
- Optimized RFR using **5-fold cross-validation** and **GridSearchCV**, selecting it as the final model for deployment.

Pneumonia DL Image Classifier

- Developed predictive models for **pneumonia detection** from chest X-ray images using **CNNs** and **transfer learning** with ResNet34.
- Leveraged **fastai's** image processing pipeline, incorporating key preprocessing steps like **resizing, normalizing, and augmenting images** to enhance model performance.

EDUCATION

Polytechnic University of Turin - *B.Sc. Computer Engineering* *Sep 2021 - Present*

- Pursuing B.Sc. in Computer Engineering with coursework in **Data Structures & Algorithms, Mathematical Methods for Computer Science,** Introduction to **Databases** and **Probability** & **Statistics**.

CERTIFICATIONS & COURSES

Machine Learning Specialization, Coursera
SQL For Data Science, University of California Devis

Data Science and Artificial Intelligence, Mohirdev

LANGUAGES

English C1 (IELTS 7) **Italian B1**