Asadbek Iskandarov

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SKILLS & LANGUAGES

Programming & Languages: Python, SQL, JavaScript, Java, C, R (Basic), Bash
AI & Machine Learning: TensorFlow, Scikit-learn, LLM Integration, Prompt Engineering, Predictive Modeling
Data Handling & Analysis: Pandas, NumPy, Matplotlib, Seaborn, Data Structures & Algorithms, PostgreSQL, MySQL
Tools & Platforms: Next.js, React, Azure Blob Storage, Google Sheets API, Apps Script, n8n, Git, REST APIs

EXPERIENCE

AI Software Engineer – SAPIENTA SRL *Mar 2025 - Present*

- **AI System Design :** Designed and implemented end-to-end pipelines to transform unstructured inputs—such as PDFs, spreadsheets, and audio—into structured, actionable data. Created logic for product identification, attribute extraction, and dynamic cost evaluation using LLM-based approaches.
- **User-Facing Integration:** Delivered a responsive, AI-assisted frontend interface to enable real-time feedback, structured editing, and human-in-the-loop control. Focused on creating an intuitive user experience that bridges AI output with manual refinement when needed.

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 CRM and data entry operations by integrating Google Sheets, Apps Script, and HubSpot API, synchronizing 1,000+ data points in real time and saving 20+ hours/week with 100% accuracy.**
- **Built and fine-tuned LLM-driven candidate ranking models (LLAMA2, MiniLM) on a 30,000+ CV dataset, improving match accuracy by 40% through score-based recommendation pipelines.**

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.

EDUCATION

Polytechnic University of Turin - *B.Sc. Computer Engineering* *Sep 2020 - 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 Russian A2