

Dmitry Ryzhenkov

Data Scientist

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WORK EXPERIENCE

HACK A BOSS, A Coruña - Data Scientist & MLE

01/2024-PRESENT

Led the autonomous end-to-end development of data solutions and internal R&D tools in a 2-person data team, reporting directly to business and product stakeholders.

- **AI Evaluation Platform (APIs + LLMs + GCP):**
 - Designed the technical assessment framework (psychometric items and rubrics) and built the complete solution, processing **150+ technical data profiles** for a B2B client. Automated candidate evaluation using **Gemini Pro**, implementing **Chain-of-Thought** prompting to align model reasoning with valid psychometric constructs.
 - **Impact:** Enabled the creation of talent mapping dashboards and organizational skill gap analyses for strategic decision-making.
 - **Engineering:** Built a fault-tolerant pipeline (retries, local cache/WAL) to ensure data integrity against network failures.
- **High-Performance Optimization Engine (Python + Zig):**
 - Designed and implemented a genetic algorithm for combinatorial optimization from scratch.
 - **Performance:** Rewrote the computational core in **Zig**, reducing execution time from minutes to **milliseconds** by eliminating Python overhead (memory management, bitmasks, and cache locality).
- **Automation & Data Engineering (AWS + Python):**
 - Developed **AWS Lambda** scripts to automate critical notification workflows.
 - **Impact:** Achieved a measured saving of **+150 hours/year** of manual labor and eliminated human error in B2C communication.
 - **Engineering:** Implemented data extraction via reverse engineering of legacy APIs to maximize efficiency.
- **Analysis & Technical Quality:**
 - **Analytics:** Conducted statistical analysis of covariance (ANCOVA/NPS) to drive methodological improvements and optimize talent selection.
 - **Code Auditing:** Performed code reviews on user projects to ensure best practices and detect error patterns.

SKILLS

- **Programming Languages:** Python, SQL, C, Zig.
- **Languages:** Spanish (Native), English (Fluent), Russian.
- **Cloud & Infra:** AWS (Lambda, S3, EC2, EventBridge, RDS), Linux, Docker, Git/GitHub/GitLab.
- **ML & Data:** NumPy, Pandas, Seaborn, Torch, Scikit Learn, Keras, LLMs
- **Soft Skills:** Technical Leadership, Technical Communication, Autonomy, Problem Solving.

EDUCATION

HACK A BOSS, A Coruña - Data Science & IA (2023)

University of Almería, Almería - Bachelor's Degree in Psychology (2017-2021)