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| **Lev Selector, Ph.D.**President, Lead AI Architect |  |

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| Skills and Highlights

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| Education | Master of Science in Automation, Biophysics, and Engineering |
| Degree | Ph.D. in Mathematical Modelling, Computer Simulations |
| LinkedIn Profile | <https://www.linkedin.com/in/levselector/>  |

 | Profile* Ph.D. level Data Scientist. 15+ years of experience
* Full cycle planning and development. Building and training teams
* Generative AI, Large Language Models
* High-volume data processing, big data, ETL, databases, analytics, ML & AI
* Experience with Financial, Advertising, e-Commerce, Media and Publishing industries
* Clouds (AWS, Azure Synapse Analytics, GCP)
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## Selected Experience

**Enterprise AI Solutions - President, Lead AI Architect**

* Large Language Models (LLM) for business - local and on cloud
* Custom private conversational interfaces for business systems
* Talk to your data - cognitive search
* Text generation (generate summaries, contracts, instructions, q/a)
* LLM quantizing, fine-tuning. Prompt-engineering. Self-verification
* RAG (Retrieval Augmented Generation), embeddings, vector database, PostgreSQL, Milvus
* Huggingface tools, models & APIs, llama.cpp, LangChain, OpenAI, ChatGPT, LLaMa, Ollama, MLStudio

**Redapt - Practice Lead, Data Science**

* Built, trained, and managed a team of data scientists
* Data architecture in the cloud (Azure, AWS, Google), Apache AirFlow, ADF, SQL Data Warehouse; Hands on Machine Learning modeling in the cloud (Azure Machine Learning Studio, Azure Synapse Analytics, Azure Cognitive Search, Python, Scikit-Learn, AutoML, predictive modeling, regression, classification, time series forecasting, anomaly detection)

**National Debt Relief – VP of Data Science, Head of Analytics**

* Built, trained and managed a team of data scientists
* Created architecture on Linux server(s) on Azure cloud to run hundreds of jobs (ETL, data processing, Machine Learning); building visualizations using Salesforce Einstein Analytics Dashboards and Jupyter notebooks. Azure SQL Data Warehouse, Python, Nginx web server, Gunicorn gateway server, Scikit-learn, Random Forest, XGBoost, H2O.ai)

**Penguin Random House, Consultant**

* Trained and led the team to build systems in Business Intelligence/Analytics
* Big Data Collection and Integration (ETL/ELT), Machine Learning and AI, Reporting. Python, pandas, Netezza, SQL, Redis, AWS, Linux. Created system for high-volume parallel web scraping at ~2 Mln pages/day. Organized "Deep Learning Book Club" to promote the use of Machine Learning and AI in-house; worked with several business groups to create various data feeds and tools to clean and ingest data; created Python framework to work with IBM Netezza DB; wrote analytics tools for price analysis and estimation.

**Some of the previous consulting clients: Goldman Sachs, Morgan Stanley, JPMorgan Chase, Citigroup, Merrill Lynch, Vanguard, Waterhouse Securities, Cantor Fitzgerald/Espeed, CSFB, HSBC, WorldQuant, AppNexus**

* Data Processing and Analytics, data preparation, migration, ETL (Extract, Transform, Load), Web applications.