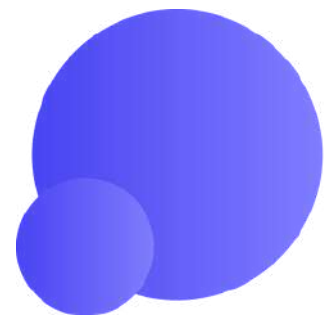# Comprehensive AI & Tech Solutions: From Concept to Scale

Presentated by Egor Beliaev & Sava Kanevsky

Egor Beliaev

Hands-on Machine Learning and Computer Vision Engineering Lead
8 years of ML R&D experience and 4 years of R&D team leading experience
US-based startups, Linkedin

Let's Enhance is a $3M seed stage deep-tech company with $6.3M revenue that builds next-gen AI photo management solutions for marketplaces. Let's Enhance has 20+ staff with 3 ML team members

- Created neural networks and ML backend for Photo 2.0 and Smart Enhance products which served 2M B2C users on the platform and dozens of B2B customers processing millions images per month - Mixtiles, Chatbooks, Printiki, etc
- Contributed around 80% of ML backend, Researched and implemented the transition of a backend to Nvidia Triton inference server
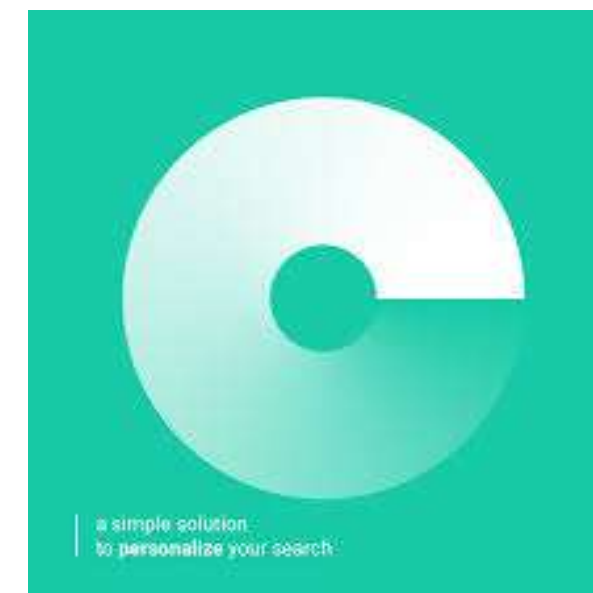- Led R&D team of 3-5 people for 2 years

Alias is a $3M seed stage startup From Nashville, TN with 19 team members, cofounded by the former CEO of Machine Zone, Kristen Garcia Dumont. BeFake AI is an effortless and fun app which offers introduction to AI that allows you to transform every moment, no matter how messy, into a social media masterpiece.

- Helped to lead a team of 5-6 ML engineers, defining priorities in various areas
- Architected GenAI stealth identity change application Alias app from the ground up
- Led a team of 4 ML engineers

Clikque was a Santa Monica, CA startup that started as a social suggestion application that used proprietary algorithms to automatically suggest friends or colleagues that you know, to help solve any of life's daily needs, all based just on the content of the question being asked.

- Developed NLP vector/keyword search engine, architected and rebuilt ML backend from scratch. Beta product released
- Created an internal tool for automatic matching of social profiles which compared faces on photos, names and other social network fields
- Co-developed MVP for SaaS product using Elasticsearch and proprietary vector/keyword engine
- Did a pitch deck for pivoted SaaS product, interaction with incubators, helped with fundraising pitches within Ukraine
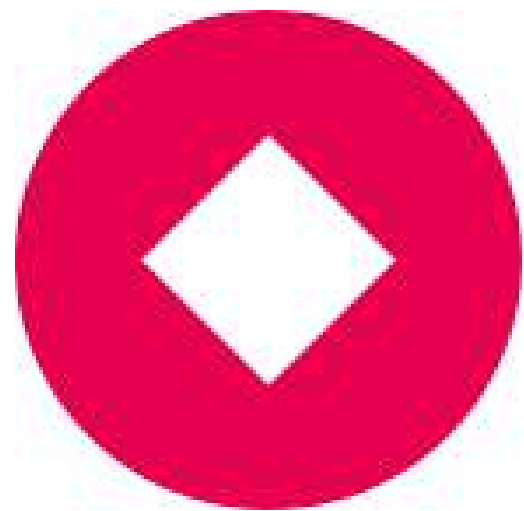
Savely Kanevsky

Hands-on Software Development and Infrastructure Lead with 14 years of experience, Linkedin

Aegees DMCC is a corporate messenger with strong ECDSA cryptography

- Implementing various development environments, infrastructure tests
- Developing K8s architectures
- Server infrastructure (AWS)
- Database development: PostgreSQL, ScyllaDB

Credit Europe Bank (CEB) is a Dutch-registered bank owned by the Turkish financial holding company FIBA Group. The bank is focused on corporate lending as well as on retail banking and operates in the Eurozone countries of the Netherlands, Germany, Malta as well as in Romania, Switzerland and Ukraine.

- R&D, architecture, system design
- VoIP development
- Asterisk callback and call recording solutions from scratch
- Database development, e.g Postgres DBA, auto failover like Stolon-Pgbouncer, etc
- Infrastructure tests
- Data engineering R&D
- Recording systems migration to K8S

Undisclosed ongoing stealth project based in UAE (smart devices venture-backed startup)

- Ansible Galaxy collection to manage on-premises GPU servers
- Model pre-deployment tests in Jenkins pipelines
- Control of model training and data consistency
- Data processing workflows in AirFlow
- Grafana and Prometheus for general monitoring of K8s resources
- Helping to lead a team of 3-4 DevOps

Mission

We're a team of specialists with 8-10+ years of development and leading experience in startups and large-scale enterprise B2B & B2C companies

Empowering Innovation with Expertise: Transforming Ideas into impactful Tech Solutions through Advanced AI, Agile Development, Robust Engineering and Generative AI Design

- We aim to empower businesses to unlock their full potential through cutting-edge machine learning solutions and robust data infrastructure.
- We specialize in tailoring advanced AI strategies and infrastructure designs to meet unique business needs, driving efficiency, innovation, and competitive edge.
- We expertly navigate the distinct infrastructure requirements of both startups and mature projects. Our solutions are designed to evolve seamlessly with your business, from its inception through to its growth and expansion phases. Recognizing that the use of niche technologies in infrastructure can pose maintenance challenges, we prioritize reliable and easily scalable infrastructure components, coupled with maintainable infrastructure code

[Magnus Morinhel, Staff ML Engineer (IC6) / Founder / Alumni @ EF, Antler and CDL / Advisor @ AgileRL](#)

Egor is an outstanding researcher and engineer who made a big impact on penetrating the drug discovery market with us. In a few weeks he naturally became a lead of the team, being a focal point connecting individuals with different science backgrounds while proactively mentoring junior engineers. His intuition and technical skills led the research of voxel-based protein models and the development of our GenAI drug discovery platform.

He has been in the space of GenAI long time before the hype arrived, making him a great technical strategist. He knows how to turn research into real products—his deep technical knowledge in deep learning, combined with intuition and know-how, is invaluable for both the technical and product sides. He is a formidable force and the one to drive breakthroughs and achieve mission-critical goals for truly ground-breaking companies.

[Gordon Reid, AIG Industrial Gas Distributors Ltd.AIG Industrial Gas Distributors Ltd. / ex Global Strategic Technology & Strategic Applications Representative, High-Tech & Entertainment @ Oracle](#)

Egor is a strong machine learning engineer with an exceptional ability to adapt. His leadership skills, coupled with strong initiative and autonomy, highlight his unparalleled work ethic. As a deep learning engineer, Egor excels in implementing research papers and devising novel ML strategies, especially in challenging business environments. His business acumen, vision for product development and his commitment to continuous improvement makes him a great candidate to lead a team, especially those of startups. He is dedicated to continuous learning and takes on multiple roles and in various fields effortlessly. Egor's approach is proactive, innovative and he assumes responsibilities with ease. He was an incredible asset to me at Clikque and I'm confident he will be a valuable asset to any research team.

[Serhii Zinchenko, Founding Product Manager (Head of Product) @ Claid.ai & Let's Enhance / Reforge Alumni / Product Mentor @ Prjctr](#)

I highly recommend Egor, a talented founding ML engineer I worked with for multiple years at Letsenhance. Leveraging his deep mathematical knowledge, Egor led key research initiatives to develop an industry-leading upscaling algorithm utilizing GAN networks, showcasing his expertise with this technology even before it gained popularity. Despite his impressive technical skills, he remains humble and eager to collaborate and mentor others. Egor's positive attitude and foundational understanding of ML make him an invaluable team member who drives impact.

Startup References

Our services

- **AI Product development**
  - **MVP (Minimum Viable Product) AI Product**
    - This involves developing a basic version of an AI product with enough features to attract early adopters and validate a product idea early in the product development cycle
  - **Mobile App with AI Integration**
    - This can range from rather simple chatbots and recommendation engines to more sophisticated AI features like image and video generation, natural language processing, and predictive analytics
  - **SaaS (Software as a Service) AI Solutions**
    - Scalable, easy to update cloud-based AI solutions that are accessible over the internet on a subscription basis. They can include a wide range of services like AI-driven analytics, customer relationship management (CRM) tools with AI capabilities, automated marketing platforms, etc
    - We minimize initial investment into infrastructure
  - **AI-Enabled Business Process Automation**
    - Automating routine, labor-intensive tasks using AI, thereby increasing efficiency and reducing costs. This can include automating customer service through AI chatbots, streamlining accounting processes, or automating inventory management.
  - **Custom AI Solutions**
    - Tailored AI solutions designed to address specific business challenges or to optimize particular processes within a company. This could include anything from supply chain optimization to automated quality control systems

- **Infrastructure development**
  - **MLOps (Machine Learning Operations)**
    - Automate and streamline the end-to-end machine learning lifecycle: the deployment, monitoring, maintenance, and governance of machine learning models. Key components of MLOps infrastructure are version control systems for models and datasets, continuous integration and delivery (CI/CD) pipelines, deployment pipelines, and model performance monitoring tools.
  - **Database development**
    - Designing, creating, and managing databases to efficiently store, retrieve, and manipulate data, ensuring data integrity, security, and performance optimization for applications and systems.
  - **ETL (Extract, Transform, Load) Pipelines**
    - ETL pipelines automate the process of extracting data from various sources, transforming it into a format suitable for analysis, and loading it into a data warehouse or database. They are essential for ensuring data quality and accessibility for AI applications.
  - **Cybersecurity and Compliance**
    - Infrastructure must include robust security measures to protect sensitive data and AI models. This includes encryption, access controls, and compliance with data protection regulations.
  - **APIs for Model Integration**
    - Tailored AI solutions designed to address specific business challenges or to optimize particular processes within a company. This could include anything from supply chain optimization to automated quality control systems.

AI product development

Your vision, our expertise: We specialize in developing the AI solutions you want, custom-made to fit your business's unique requirements. Let us turn your ideas into reality with tailored AI technology

AI expertise
Machine Learning, Computer vision, Natural Language Processing, Reinforcement Learning
MVP (Minimum Viable Product) development
Defining problem and objectives, market research, technology assessment, data collection and preparation, prototyping, model evaluation, AI product integration, feedback collection, iterative improvement
Designing Machine Learning Systems
Choosing the appropriate algorithms, designing the system architecture, software development, full-scale deployment, monitoring
Generative AI
Large Language Models, Diffusion models, Generative Adversarial Networks, image2image
Deep learning model implementation
Python, Pytorch, Tensorflow/Keras, NVidia Dali, CUDA Kernels, AutoML (tpot), Scikit-learn, XGBoost, Jupyter Notebooks, Google Colab, Huggingface
Data Processing and Analysis
Pandas, NumPy, SciPy, Scikit-learn, NLTK, spaCy, Matplotlib, Seaborn, Plotly
Model deployment and Integration
Docker, Kubernetes, ONNX Runtime, TensorRT, CoreML, TensorFlow Lite
Optimizing for Performance and Scalability
Quantization, distillation, edge-device conversion

Team of one, we can onboard new team members from our professional network in 2 weeks

Typical project duration: 2-3 months
Billing Project Based / Stage based/ Monthly based / Hourly.
1 - week or 2 - week check-ins

Infrastructure

Your goals, our foundation: Specializing in robust infrastructure development tailored to your specific needs.
We build the strong, scalable, and secure backbone your business requires, transforming your vision into a seamless, high-performance reality

Deep learning models and GPU code
Pytorch, Tensorflow, TensorFlow Serving, TorchServe, NVidia Triton inference server
Cloud platforms
GCP, AWS, Azure
Deployment and MLOps Tools
Docker, Kubernetes, Airflow, Kubeflow, Terraform, Ansible
Databases
PostgreSQL, MySQL, MongoDB, Cassandra, Clickhouse
Monitoring
Prometheus, Grafana
Messaging and data serialization
Kafka, RabbitMQ, Celery, Protocol Buffers, JSON
Testing, CI/CD and version control
Jenkins, GitLab CI/CD, DVC, Git
API development
REST API, Flask, Django, FastAPI
Asterisk telephony
IPSec security

Team of one, we can onboard new team members from our professional network in 2 weeks

Typical project duration: 3-6 months, 6-12 months
Billing Project Based / Stage based/ Monthly based / Hourly.
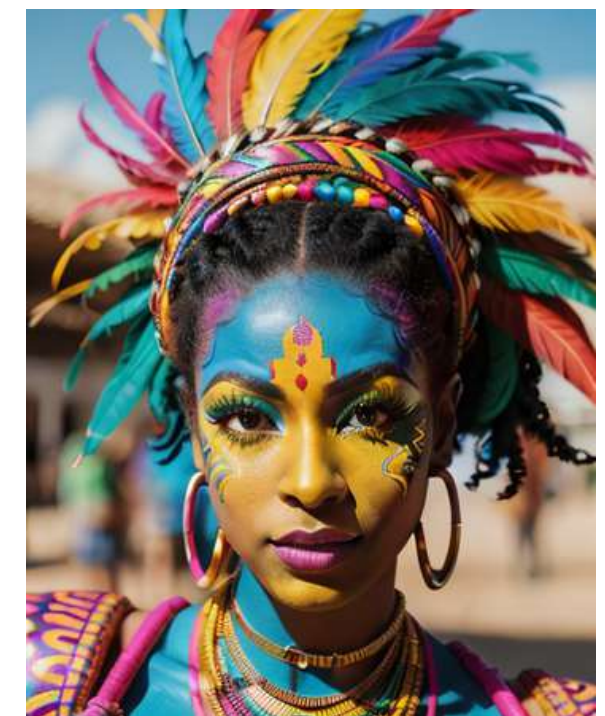1 - week or 2 - week check-ins

Graphic Design

Enhance your visual experience with our team's expertise in Graphic Design. We can use both traditional (Adobe Photoshop, Adobe Illustrator, Adobe InDesign) and Generative AI (Stable Diffusion, Midjourney, other novel GenAI projects) approaches do deliver the best visuals for your project.

Team of one, we can onboard new team members from our professional network in 2 weeks

Typical project duration: 1 month
Billing Project Based / Hourly. 1 - week or 2 - week check-ins

Our Process

01

Research stage: We use our network of relationships and years of experience to provide the best expertise for your problem
Duration: 1-2 weeks

02

Roadmapping stage: We conduct research and present a roadmap of the solution
Duration: 1-2 weeks

Our Strategy

03

MVP Stage: We develop prototype and MVP
Duration: 1-2 months

04

Development stage: We build and scale production solutions
Duration: 3-6 months

Pricing

AI Project:
Project Based / Hourly/ Stage based/ Monthly based

Infrastructure:
Project Based / Hourly/ Stage based/ Monthly based

Graphic Design:
Project Based / Hourly

We prefer using deel.com contracts

Thank you

Contact Us

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