BEKHRUZ NUTFILLOEV

Machine Learning Engineer
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PROFESSIONAL SUMMARY

Results-driven Machine Learning Engineer with 5+ years of experience designing, developing, and deploying production-grade AI systems at scale. Proven expertise in computer vision, edge AI optimization, and biometric recognition systems. Led development of MyID and PalmID platforms serving millions of users across Uzbekistan's national banking infrastructure. Strong background in C/C++ SDK development, PyTorch optimization, and end-to-end MLOps implementation.

TECHNICAL SKILLS

Programming: Python, C/C++, SQL, Bash | **ML Frameworks:** PyTorch, TensorFlow, ONNX, ONNX Runtime, Scikit-learn
Computer Vision: OpenCV, YOLO, ArcFace, FaceNet, Object Detection, Liveness Detection | **MLOps:** Docker, Git, CI/CD, MLflow, PyTorch-serve
Databases: ElasticSearch, Qdrant, FAISS, PostgreSQL | **Edge:** NVIDIA Jetson, CUDA, TensorRT, Model Quantization

PROFESSIONAL EXPERIENCE

Machine Learning Engineer | AI Implementation Group **January 2025 - Present**
Tashkent, Uzbekistan

- Architect and deploy production ML models for enterprise-scale AI solutions serving thousands of concurrent users
- Design comprehensive MLOps pipelines for automated model training, testing, deployment, and monitoring

Machine Learning Engineer & Researcher | UZINFOCOM LLC **November 2021 - January 2025**
Tashkent, Uzbekistan

- **MyID Biometric System:** Engineered end-to-end facial recognition pipeline deployed across 50+ banks nationwide, processing 10M+ authentication requests monthly with 99.7% accuracy and sub-200ms latency
- Developed advanced liveness detection models achieving 98.5% anti-spoofing accuracy using deep learning techniques
- **PalmID Recognition System:** Built production-ready palm vein recognition with C/C++ SDK, reducing inference time by 60% through ONNX optimization and TensorRT acceleration
- Implemented AES-256 model encryption and secure deployment protocols protecting proprietary algorithms on IoT devices
- Built scalable vector search infrastructure using FAISS and Qdrant for real-time biometric matching across 5M+ database
- Established CI/CD workflows for ML models including automated testing, versioning, and rollback capabilities
- Deployed ArcFace and FaceNet embedding models optimized for edge devices with 8x memory reduction

Lead AI Engineer | Robocontest.uz **January 2025 - September 2025**
Tashkent, Uzbekistan

- Designed computer vision systems for autonomous robotics platform supporting 500+ participants
- Developed real-time object detection and tracking algorithms optimized for embedded hardware constraints

CEO & Founder | Proxora Global LLC **September 2024 - November 2025**
Tashkent, Uzbekistan

- Founded IT consulting firm delivering AI-powered digital transformation solutions to 15+ enterprise clients

Computer Vision Engineer | TASS Vision **May 2021 - August 2021**
Tashkent, Uzbekistan

- Developed object detection models for NVIDIA Jetson achieving 30 FPS on resource-constrained hardware
- Optimized MobileNet and Caffe models using TensorFlow and CUDA, reducing inference latency by 45%

Machine Learning Engineer Intern | TTSUzbekistan **January 2021 - July 2021**
Tashkent, Uzbekistan

- Implemented automatic speech recognition system using SOVA ASR achieving 92% word accuracy on Uzbek corpus

EDUCATION

Bachelor of Software Engineering | Tashkent University of Information Technology **2020 - 2024**
Bachelor of Engineering, Artificial Intelligence | Innopolis University **2022 - 2023**

ACHIEVEMENTS & CERTIFICATIONS

Awards: Winner - World AI & Data Challenge | Winner - Open Data Challenge Uzbekistan | Winner - Voice AI Challenge 2021
Certifications: Google Technical Support Fundamentals | The Bits and Bytes of Computer Networking | FastAPI and Python