GAVRIEL KIRICHENKO

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PROFESSIONAL SUMMARY

Analytical and results-driven Data Scientist and AI Developer with experience building ML models, deploying real-time vision systems, and delivering insights through data storytelling. Proficient in Python, deep learning, and visualization tools. Eager to contribute to data-driven innovation in analytics or AI roles.

TECHNICAL SKILLS

- **Programming & ML Frameworks:** Python, TensorFlow/Keras, PyTorch, scikit-learn, Hugging Face Transformers
- **Signal Processing & Computer Vision:** OpenCV, frame differencing, contour detection, time-series data pipelines
- **Data Science & Analytics:** pandas, NumPy, regression/classification models, feature engineering, excel
- **Visualization:** Tableau, Power BI, Matplotlib, Seaborn, PowerPoint
- **DevOps & Cloud:** AWS, Docker, Git, GitHub Actions, CI/CD pipelines
- **Machine Learning Concepts:** supervised/unsupervised learning, deep learning (CNNs, RNNs, LSTMs), NLP (tokenization, sentiment analysis, TF-IDF), model evaluation (precision, recall, F1, ROC AUC), hyperparameter tuning, cross-validation, pipeline automation

EDUCATION AND CERTIFICATION

Postgraduate Certificate in Applied AI Solutions Development **Jan 2025 – Present**
George Brown College, Toronto, Ontario

- Built and deployed supervised and unsupervised models with scikit-learn and TensorFlow/Keras
- Designed and implemented end-to-end AI pipelines (data ingestion, cleansing, feature engineering) using Python and SQL

Google Advanced Data Analytics Professional Certificate, Coursera, Online **2024**

- Explored **machine learning fundamentals**, covering algorithm selection, training/validation workflows, and performance metrics in "The Nuts and Bolts of Machine Learning"

Google Data Analytics Professional Certificate, Coursera, Online **2024**

- Mastered **data-cleaning & preparation** techniques in spreadsheets and SQL, including PivotTables, VLOOKUP, joins, filtering, and metadata management
- Built **interactive visualizations** in Tableau to surface insights, and learned principles of effective data storytelling and dashboard design

Bachelor of Arts in Computer Science **Sep 2017 - Dec 2023**
York University, Toronto, Ontario

- Implemented inheritance, polymorphism, and design patterns by building a modular inventory-management system
- Performed time- and space-complexity analyses and implemented Quick, Merge, Dijkstra's, and A* algorithms in Java
- Designed and prototyped interactive GUIs using JavaFX, incorporating usability-testing feedback to improve layout and navigation

PROFESSIONAL EXPERIENCE

Junior Python Developer Intern **Jan 2023 - August 2023**
YLTSP SOFTWARE Inc, Contract

- Led end-to-end A/B testing in Python and SQL, boosting user engagement by 12%.
- Designed OOP-driven Python modules to automate ETL pipelines for experiment data.
- Collaborated with front-end teams to deploy winning variants 20% faster, fostering open communication across departments.
- Optimized complex SQL queries to reduce average data-retrieval times by 25%.

PERSONAL PROJECTS

AI-Powered Career Coaching Chatbot **2025**

- Built a production-grade chatbot using Python, Flask, OpenAI GPT-4 API, and custom memory management.
- Automated PDF resume extraction pipeline achieving 95%+ text extraction accuracy.
- Designed full testing suite ensuring 100% reliability: planned roadmap for RAG integration & job market intelligence.
- Integrated dynamic prompt templates and user context retention to personalize career advice and mock interview responses
- Benchmarked response latency and optimized Flask routes to achieve consistent sub-second interaction times

Visualizing Cybersecurity with Tableau & Prep Builder **2025**

- Used Tableau Prep Builder to clean, blend, and enrich raw cybersecurity incident logs
- Designed interactive Tableau dashboards featuring geospatial maps, temporal trends, Pareto analyses, and clustering views
- Highlighted key attack hotspots and time-based patterns to support security decision-making
- Implemented clustering and conditional formatting to flag abnormal patterns and potential security breaches

Chess Game Outcome Predictor **2023**

- Collaborated with a team to develop and deploy a chess outcome-prediction model using Python and scikit-learn on historical Kaggle match data
- Built a classification model to predict chess match outcomes using EDA, feature engineering, and Random Forests
- Led data cleaning and feature engineering—transforming raw moves, piece activity, and player ratings to improve accuracy

LLM-Powered Banking Assistant

- Built an AI-powered chatbot using OpenAI API, LangChain, and FastAPI to simulate an intelligent banking assistant
- Ingested PDF and web-based banking documents into a ChromaDB vector store for RAG-style contextual retrieval
- Integrated Model Context Protocol (MCP) to enable seamless communication between the AI assistant and external banking systems and data sources
- Integrated session memory, intent classification, and streaming responses for dynamic user interaction