Aleksey Yanovich

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TECHNICAL SKILLS

Languages: Python, Java, TypeScript, JavaScript, HTML, CSS, Dart, Kotlin, C
Frameworks & Libraries: TensorFlow, PyTorch, Scikit-learn, NumPy, Pandas, SciPy, Django, JUnit, React.js
Tools: Git, GitHub Actions, VS Code, Google Cloud Platform, AWS, Firebase, Gemini API, Gradle

EDUCATION

University of Washington, Seattle, WA
Bachelor of Science - Computer Science

PERSONAL PROJECTS

FitCheck – Social Fashion Challenge App | *Flutter, Firebase, Firestore, AWS S3, Dart, Python, Git*
- Developed a cross-platform mobile app for daily outfit challenges with Firebase Authentication and Firestore for secure, real-time posts, comments, and user data
- Engineered scalable AWS S3 pipelines for image uploads with camera/gallery previews and edit flows, and designed a dynamic leaderboard system using Firestore live updates
- Built intuitive UI components, optimized data models for fast cross-device sync, and collaborated on modular backend logic to track likes, awards, and generate daily challenges

Real-Time Crypto Market Analysis with LLMs | *Python, Ollama, CoinGecko API, Pandas, Plotly*
- Built a Model Context Protocol (MCP) to extend LLMs with structured API access for live sentiment analysis, price forecasting, and technical indicators. Engineered modules for historical trend analysis, RSI/MACD indicators, and volatility detection using NumPy and Pandas
- Visualized time-series data with Plotly, building interactive performance and sentiment dashboards for major cryptocurrencies
- Solved real-world challenges such as API rate limiting, structured tool calling, and building AI-driven forecasts on live market data

Drug Synergy Prediction Using Gemini Embeddings | *Python, PyTorch, Gemini API, Fairseq, GNNs*
- Replaced Pisces original GCN molecular encoder with Gemini-generated SMILES embeddings to enhance drug synergy prediction, achieving >95% accuracy on 10,000 binary synergy tasks
- Built pipelines to semantically encode molecular structures using Google Generative AI, streamlining synergy prediction on large biomedical datasets

Instagram Reel Summarizer App | React Native, Gemini API, TypeScript, Firebase
- Designed a mobile app to summarize saved Reels using Gemini LLMs and auto-organize them into smart folders by mood and content themes
- Implemented interactive reflection tools, including therapist-style summaries and AI-generated prompts, driving deeper user engagement
- Integrated Gemini API and YouTube/article retrieval to deliver personalized content suggestions, enhancing discovery through conversational AI

WORK EXPERIENCE

Guardian Pharmacy, *Pharmacy Operations & Automation Assistant*, Lynnwood, WA   February 2021 - Present
- Collaborated with a team of pharmacists and technicians to ensure the timely preparation of ~100 prescriptions daily for elderly care facilities, maintaining process consistency and minimizing medication errors
- Partnered with team members to diagnose and resolve software and mechanical issues in the Omnicell Medimat Robotic Dispensing System, enhancing packaging accuracy and reducing manual intervention by 40%