Timur Rakhimov

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PROFILE SUMMARY

Driven Computing Science graduate with hands-on experience in designing and implementing machine learning and AI solutions. Expertise in building predictive models, optimizing algorithms, and applying advanced deep learning techniques to solve real-world problems. Skilled in Python, Scikit-learn, YOLOv8, and data visualization with Matplotlib. Proven ability to deliver innovative solutions through data analysis, model optimization, and robust software development practices. Recognized for achieving measurable performance improvements and deploying high-impact ML models in various domains.

SKILLS

- **Machine Learning & AI**
  - Supervised and Unsupervised Learning: Regression, Classification, Clustering
  - Deep Learning: YOLOv8 (Object Detection), Neural Networks
  - Libraries & Frameworks: Scikit-learn, TensorFlow, PyTorch
- **Programming & Data Processing**
  - Languages: Python, Java, C++
  - Data Visualization: Matplotlib, Seaborn
  - Data Management: SQL, MongoDB
- **Development Tools**
  - Git, Roboflow, CVAT, Object-Oriented Programming, Software Architecture

PROFESSIONAL EXPERIENCE

Project Manager
Aparti.kz, Almaty, Kazakhstan October 2023 – present

- Managed a cross-functional team of 7 professionals, including 2 senior developers, 3 mid-level developers, and 2 designers, delivering 100% of project milestones on schedule and within a $25,000 budget.
- Successfully integrated 3 third-party services (payment provider, Yandex Maps, document verification), reducing manual processing time by 45%.
- Designed an initial wireframe that resulted in a 30% improvement in user onboarding time based on competitor benchmarking.
- Submitted app listings to the Apple Store and Google Play with a 100% approval rate on the first submission, ensuring compliance with stringent platform guidelines.
- Oversaw backend development using C#, .NET Entity Framework, and Postgres with PostGIS, leading to a 25% improvement in query efficiency for location-based services.

EDUCATION

Bachelor of Computing Science
Thompson Rivers University, Kamloops, BC
September 2020 – December 2024

- Cumulative GPA: 3.78
- Dean's list: 2021, 2022, 2023, 2024
- Student Caucus – Academic Integrity Committee representative.

PROJECTS

Foreign Object Detection Tool using YOLOv8 November 2024
Teck HVC (High Valley Copper), Kamloops, BC

- Developed a YOLOv8-based detection model achieving **92% True Positive rate** and **less than 8% False Negative rate**, exceeding safety benchmarks.
- Labeled a dataset of 6,700 images, resulting in a 20% reduction in model training time compared to previous labeling methods.
- Transitioned to real-world data testing, analyzing a 5-minute conveyor belt video with 15 foreign object types.
- Optimized model performance by training on diverse datasets, improving detection reliability in mining environments by 30%.

Laptop Pricing Prediction using Machine Learning November 2024
COMP4980: Machine Learning, Kamloops, BC Read More

- Designed a machine learning solution to predict laptop prices based on features like RAM, SSD size, and screen resolution.
- Explored a Kaggle dataset containing 1,273 laptops, performing data cleaning, analysis, and feature engineering.
- Trained and optimized multiple models, including Random Forest, Gradient Boosting, and MLP, achieving the best test MSE of 0.0725 with Gradient Boosting.
- Visualized feature importance, identifying RAM, SSD size, and screen resolution as key drivers of price.
- Proposed practical applications for manufacturers and retailers to optimize pricing strategies.