Davronbek Malikov

ML / DL/ Data Engineer
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Summary

- Creative and analytical AI researcher and machine learning engineer with strong background in applying advanced mathematical concepts to real-world problems.
- Experienced in developing innovative solutions in sports analytics, especially soccer, combining technical expertise with practical insights.
- Skilled in Machine Learning (ML), Deep Learning (DL), and data manipulation using SQL.

Education

Ph.D. in AI Convergence Engineering 2020–2025
Gyeongsang National University, Republic of Korea
Thesis: Advancements in Soccer Analytics: Players' Goals and Salary Prediction Models with Machine Learning
Supervisor: Jaeho Kim

Master of Informatics 2018–2020
Gyeongsang National University, Republic of Korea

Bachelor of Mathematics 2014–2018
Fergana State University, Uzbekistan

Experience

Graduate Researcher 2022–2025
Big Data Systems Software Lab, Gyeongsang National University, South Korea

- Focused on ML applications in soccer analytics.
- **Publications:**
  - Malikov, D., et al. *Predicting Soccer Player Salaries with Both Traditional and Automated Machine Learning Approaches* (first author). SCIE: 17% increased accuracy of prediction model. [DOI]
  - Malikov, D., et al. *Beyond xG: A Dual Prediction Model for Analyzing Player Performance Through Expected and Actual Goals in European Soccer Leagues* (first author). SCIE: 12% improvement on player performance prediction. [DOI]
  - Malikov, D., et al. *Comparative Evaluation of Machine Learning Models for Predicting Soccer Injury Types* (first author). KSCIE: Introduced soccer players injury prediction model using constructed features. [DOI]
  - Malikov, D., et al. *The Application of Machine Learning on the Injury Prediction of Soccer Players* (first author). ISE@APSEC: Novel approach for predicting players injury without GPS technology. [PDF]

Graduate Researcher 2018–2021
Distributed Systems Lab, Gyeongsang National University, South Korea

- Focused on applying advanced mathematical concepts to distributed systems.
- **Publications:**
  - On the construction and properties of lattice-group structure in Cartesian product spaces (first author). *Journal of Computer Science*. [DOI]

Tools & Frameworks

- Programming ML Frameworks: Python, PyTorch, TensorFlow, Scikit-learn, Pandas, NumPy
- Data DevOps Tools: SQL, GitHub, Docker
- Web Visualization: HTML, CSS, JavaScript (for data visualization and interactive interfaces)
- Robotics AI Applications: Experience with computer vision (YOLO, Roboflow), sensor data processing, and integration of AI algorithms for decision-making in autonomous systems

Competences

- **Collaborative Development:** Works effectively in team environments using Git and GitHub.
- **Research and Continuous Learning:** Eager to explore new AI tools and create models that contribute to science and industry.
- **Presentations:** Skilled at presenting complex ideas clearly and effectively.
- **Analytics Enthusiast:** Passionate about ML, DL, LLM, CV, and data analytics.
- **Data Manipulation:** Proficient in SQL for handling and processing datasets.

Languages

English (Fluent), Uzbek (Native), Turkish (Advanced), Russian (Intermediate),
Korean (Conversational)