

Bahattin Can Maral

 [linkedin.com/in/bahattinmaral](https://www.linkedin.com/in/bahattinmaral)  punoqun.com  github.com/punoqun  bahattin@tuta.io  Barcelona, Spain

Machine Learning Research Engineer with 7+ **years** of experience developing production-grade machine learning for **AAA franchises** (*Call of Duty*) and high-volume live services. Currently securing player experience on the **RICOCHET** anti-cheat team through behavioral and computer-vision detection models, with a foundation in end-to-end ML and data pipelines on **Databricks** and **Spark**.

Professional Experience

Machine Learning Research Engineer 07/2026 – Present | Barcelona, Spain

Activision

- **Catch in-game cheating with 99%+ precision** across Warzone, Black Ops 6/7, and Modern Warfare 4, protecting match fairness for millions of players, by training PyTorch computer-vision models on gameplay video fused with live behavioral telemetry.
- **Cut cheat detection from days to minutes** for a 100M+ player base by engineering real-time behavioral feature pipelines on Databricks and Spark that score live matches, rank suspicious accounts, and trigger enforcement without manual analyst review.
- **Deliver 3 franchise-wide enforcement waves a year** by leading 3 machine learning projects end-to-end, owning feature design, model training, production deployment, drift monitoring, and retraining as cheat techniques keep evolving across the franchise.
- **Protect legitimate players from wrongful bans** by holding false positives under 0.1%, validating models against labelled cheat cohorts, tuning enforcement thresholds for each title, and tracking precision and recall on live production monitoring dashboards.
- **Selected to embed with RICOCHET 14 months early**, joining the team on loan from 05/2025 ahead of the formal 07/2026 transfer.

Data Engineer 04/2024 – 07/2026 | Barcelona, Spain

Digital Legends (Activision)

- **Unified analytics for 10+ teams** by architecting a Databricks golden-source data lake with scalable Spark ETL pipelines.
- **Slashed incident reporting time 90%** by building an AI-driven anomaly detection engine that auto-files Jira tickets.
- **Lifted new-user retention** on Call of Duty: Warzone Mobile by shipping real-time onboarding telemetry pipelines.
- **Recovered 5+ hrs/week per team** by automating weekly KPI reporting via an OOP Python service integrated with Slack.
- **Accelerated product decisions** by delivering self-serve Tableau dashboards on top of custom API integrations.
- **Unblocked active-user analytics at scale** by optimizing Spark queries across high-cardinality telemetry datasets.

Senior Data Scientist 07/2022 – 03/2024 | Ankara, Turkey

SNG Studios

- **Grew revenue 15%** across 40+ mobile titles by building dynamic pricing and monetization models in BigQuery ML.
- **Shortened experiment analysis time 30%** by architecting a company-wide A/B testing framework in Python.
- **Balanced live game difficulty** by deploying production Reinforcement Learning agents (RLCard) in Unity.
- **Forecast player value 180 days ahead** by building LTV prediction pipelines that fed marketing and product targeting.
- **Tripled ad revenue** by re-architecting mediation stacks with data-driven bidder configuration.

Data Scientist 03/2019 – 05/2022 | Ankara, Turkey

CBML Labs

- **Outperformed baselines by 11%** on extreme multi-output tasks by authoring EdgeBoost, a novel GBDT framework.
- **Compressed feature dimensionality 30%** by modeling high-dimensional drug-gene interactions in Python and R.
- **Scaled genomic ML analysis 3x** by optimizing PyTorch architectures over 10,000+ LINCS L1000 datasets.
- **Mentored 3 undergraduate researchers** in ML fundamentals and experimental rigor, growing the lab's research output.

Education

Master of Science, Computer Science Ankara, Turkey

TOBB University of Economics and Technology

Bachelor of Science, Computer Science Ankara, Turkey

TOBB University of Economics and Technology

Publications

Transfer Learning for Predicting Gene Regulatory Effects of Chemicals

18th International Conference on Artificial Intelligence Applications and Innovations (IAII) | 2022

Chemical Induced Differential Gene Expression Prediction on LINCS Database

20th IEEE International Conference on Bioinformatics and Bioengineering (BIBE) | 2020

Certificates

Databricks Fundamentals | GCP Databricks Platform Architect | Generative AI Fundamentals

Skills

Game Security & Anti-Cheat — Behavioral Cheat Detection, Anomaly Detection, Automated-Play & Account-Abuse Detection, Video-Based Computer Vision, Detection Feature Engineering, Model Drift Monitoring, Enforcement & Ban-Wave Analytics

AI & Machine Learning — PyTorch, TensorFlow, Scikit-learn, GBDT, Predictive Modeling, Feature Engineering, A/B Testing, MLOps

Data & Cloud — Python, SQL, Apache Spark, Databricks, BigQuery, GCP, ETL Pipelines, Data Lake Architecture, Tableau, REST APIs

F2P & Gaming — Monetization (IAP, Ads, Battle Pass, Loot Box), Live-Ops, LTV, Unity (C#), Player Segmentation, Ad Mediation