

ANIL SAYAR

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EDUCATION

Marmara University <i>B.S. in Bioengineering (Dual Diploma)</i>	Istanbul, Turkey 2023 – 2027
International University of Sarajevo <i>B.S. in Genetics Bioengineering (Dual Diploma)</i>	Sarajevo, Bosnia and Herzegovina 2023 – 2027

PUBLICATIONS & RESEARCH

AI-Driven Molecular Stratification of Sarcoma PyTorch, Python, R, PharmacoGx <i>Research manuscripts are not available until publication.</i> <ul style="list-style-type: none">Stratified 213 TCGA patients and identified a high-risk sarcoma cluster (median survival 21.6 vs. 35.4 months) using a custom Transformer-Based Gated Multi-Omic Autoencoder integrating RNA, CNV, protein, and mutation data.Validated the subtype as a robust, independent prognostic factor (HR=2.57, p=0.01) via Multivariable Cox Regression, demonstrating high reproducibility across 100 bootstrap models (ARI=0.78).Utilized TIDE to characterize a proliferation-driven, immune-suppressive phenotype, revealing that significantly elevated MDSC infiltration (p=0.011) partially mediates adverse mortality outcomes.	Manuscript Prep
Comparison of Multi-Omic Fusion Architectures for Breast Cancer Classification Python, Transformers <i>Research manuscripts are not available until publication.</i> <ul style="list-style-type: none">Developed a Gated Cross-Attention Network achieving 92.8% accuracy in BRCA subtype classification.Benchmarked performance against MLP and Transformer baselines, demonstrating the superiority of feature-wise gating for resolving ambiguities between Luminal A and B subtypes.	Manuscript Prep

EXPERIENCE

Co-Founder & Lead Software Developer <i>Neo Stellar Ltd.</i> <ul style="list-style-type: none">Developed a ROS2 flight controller and ground control station software for unmanned aerial vehicles with Qt/C++ and PythonImplemented a company intranet and automated deployment pipelines for the company with Gitlab CI/CD, Kubernetes with Cloudflare Zero Trust.	2022 – 2025 <i>Remote</i>
Software Developer & Founder <i>Scienvera</i> <ul style="list-style-type: none">Explored methods to automate deployment pipelines to handle peak loads in production environmentBuilt an AI Powered microservice Spring infrastructure in Java to make research easier for studentsDeployed and managed Scienvera as scalable microservices on Kubernetes	Sep 2024 – Sep 2025 <i>Remote</i>

PROJECTS

Scienvera – AI-Powered Academic Search Engine Java, Kubernetes, Spring, React alpha.scienvera.com <ul style="list-style-type: none">Designed a vector-based semantic search pipeline using sentence-transformers and cosine similarity for matching research abstracts with Redis to caching results and optimizing latency.Integrated Spring Cloud Gateway and Kubernetes for service routing, discovery, and failover in a distributed microservice setupConfigured CI/CD pipelines using GitLab CI/CD and Docker to enable rapid, automated deploymentsImplemented full-stack authentication with OAuth2 and JWT to protect API endpoints and user data	Sep 2024 – Sep 2025
Savaşan IHA Finalist – AvaSYS2 Ground Control System C++, ROS2, Qt6, OpenCV, MAVLink AvaSYS2 Github Link – Teknofest Replica Server Github Link <ul style="list-style-type: none">Achieved all technical milestones and qualified for finals; disqualified only due to unidentified external interruption before video submissionDeveloped a modular ground control application in C++/Qt (QML frontend & C++ backend) with a real-time dashboard for drone telemetry and live video streamingIntegrated MAVLink protocol over UDP and Serial using a custom Mavlink Manager class to handle commands (arm/takeoff/RTL) and telemetry updates for multiple vehiclesDeveloped GPS pursuit and QR code guided "kamikaze" mission algorithms using Qt/QML and ROS2 for flight controlCreated a Teknofest replica server with Java to simulate real competition servers and share vehicle data for the GCS	Apr 2025 – Aug 2025

TECHNICAL SKILLS

Bioinformatics: PyTorch (Deep Learning), R (PharmacoGx, TIDE), Survival Analysis (Cox/KM), Multi-Omic Integration
Languages: Java, C++, Python, R, C#, SQL, TypeScript
Frameworks: Spring Boot, React, Hibernate, Qt/QML, ROS2, OpenCV, GStreamer
DevOps & Tools: Kubernetes, Docker, GitLab CI/CD, Git, Linux, LaTeX

REFERENCES

Prof. Dr. KAZIM YALÇIN ARGA
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Department Of Bioengineering