Ahmet Servet Polat

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Summary

I'm a Computer Engineer focused on AI engineering, data science, agentic systems, and data-driven applications. I've built production-oriented AI agents, RAG pipelines, machine learning solutions, backend services, and web applications integrated with enterprise systems. I have experience delivering end-to-end solutions, from system design and development to deployment and maintenance, with a focus on measurable business impact. I also design and maintain self-hosted infrastructure and have a strong interest in open-source technologies, scalable systems, and applied AI.

Education

2022 - 2026 B.Sc. in Computer Engineering at **Istanbul Ticaret University**
- Graduated: June 2026, GPA: 3.50/4.00

2022 - 2025 **İŞ'TE İSAR** Professional Development Program
- Three-year voluntary program with the opportunity to learn from well-known business people in the fields of business management, marketing, finance, and technology.
- Data Science Lectures from **Tarık Altuncu** [Github Repo]

Experience

Sep 2025 - Present **Software Engineer Intern** at Amadeus IT Services

- Contributed to both the Loyalty team and a cross-functional AI team, taking role in product planning, development, and the delivery of AI-powered capabilities across multiple products.
- Architected and developed a Django-based multi-agent orchestration platform comprising four specialized sub-agents integrated with internal databases, ticketing systems, enterprise APIs, and RAG powered document repositories. Implemented access controls, authorization mechanisms, and audit measures, significantly reducing end-to-end processing times while achieving 90% task execution accuracy. The solution was formally approved by the company's R&D Center.
- Designed and developed AI-powered automated test scenario generation, large-scale test data creation, and end-to-end scenario execution, reducing manual testing effort by 40% on QA processes. The solution was formally approved by the company's R&D Center.
- Built a product support intake workflow that standardized request capture, validation, storage, and tracking across four product areas, ensuring 100% of incoming requests were recorded and tracked.
- Developed a Jira MCP-powered issue-tracking agent to automate sprint planning, backlog analysis, and ownership visibility across more than 1,980 project items.
- Developed a secure publishing AI agent with explicit scope confirmation, structured validation contracts, automated branch creation, commit preparation, and a user-controlled release process.
- Developed an AI agent for automated presentation and document generation using reusable templates, reducing stakeholder documentation effort by 50%.
- Created AI agent development technical playbooks, reducing developer ramp-up time by 50%.

Summer 2025 **Software Engineer Intern** at Kastamonu Entegre

- Built a hybrid RAG system using SQL Agents, FAISS, and LangChain to process and query multi-format documents. Integrated OpenAI, Gemini, and local models, and deployed the FastAPI and Gradio application on Google Cloud Run. Reduced information retrieval time by 85% compared to manual document search and analysis, achieving 90% accuracy for structured data queries.

Summer 2024 **Hardware Intern** at İkom Bilişim

- Developed a Linux driver to enable communication between two MCUs using the SWD protocol and created a Flask application to display various device information retrieved from MongoDB.

Summer 2023 **Data Science Intern** at Simpplr

- Performed testing and evaluation of LLM products through accuracy analysis, prompt engineering, and ground-truth table creation. Developed an evaluation dashboard using Streamlit.

Projects

Autonomous Portfolio Management in Crypto Spot Markets: Experimental Analysis and Development of Hybrid AI Approaches [Github Repo]

- Project Lead for a TÜBİTAK 2209-A autonomous crypto portfolio management project, building an end-to-end BTCUSDT spot trading prototype across data ingestion, feature engineering, forecasting, LLM-based decisioning, risk control, execution journaling, and dashboard monitoring.
- Implemented and compared 6 machine learning model families: ARIMA, Prophet, XGBoost, LightGBM, LSTM, and GRU, with walk-forward/holdout evaluation and deployable model artifacts.
- Built a FastAPI + React/Vite dashboard with 30+ API endpoints for market data ingestion, training jobs, prediction runs, model registry, live agent loops, risk status, Spot Demo orders, and decision/prediction journals.
- Achieved best directional accuracy of 75.0% with ARIMA and 72.73% with Prophet; ML/DL models reached 54% directional accuracy.
- Validated live Spot Demo trading flow over 100 BTCUSDT decisions, generating over 1,000 USDT in total trading volume across multiple buy/sell cycles.

Land Use and Land Cover Classification [Github Repo]

- Built a PyTorch transfer learning pipeline for EuroSAT land-cover classification using VGG16-BN and MobileNetV2 on NVIDIA RTX 6000 GPU hardware, across 10 classes and 27,000 RGB images.
- Implemented stratified data splits, augmentation, class-weighted loss, checkpointing, early stopping, and reproducible training/evaluation scripts.
- Evaluated models with accuracy, macro F1, AUC, confusion matrices, ROC curves, latency, and misclassification analysis, achieving up to 96.7% test accuracy.

More projects can be found on my GitHub account.

Skills

Programming:	Python (Advanced), C (Intermediate), Java (Intermediate), TypeScript
Web Development:	React.js, Node.js, Django, Flask, FastAPI, Spring Boot, REST API Design
Data Science & ML:	NumPy, pandas, Scikit-learn, TensorFlow, OpenCV, XGBoost, LightGBM, Visualization: Matplotlib, Seaborn, Plotly, Bokeh, Streamlit
Databases:	Oracle, MySQL, PostgreSQL, SQLite, MongoDB
DevOps & Cloud:	Docker, Jenkins, GitHub Actions, Google Cloud, Microsoft Azure
Software Engineering:	Version Control, Unit Testing, Agile/Scrum, Kanban
Tools:	Postman, Swagger, Jira, Confluence
Languages:	English (Advanced, YDS Exam Score: 86.25/100), Turkish (Native)