






# İbrahim Kutay Şahin

## Software Engineer

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### PROFESSIONAL EXPERIENCE

#### Trainee,

#### T3 Vakfı - Google Yapay Zeka Akademisi

2025 – 2026 | İstanbul, Turkey

Currently undergoing training at the Yapay Zeka ve Teknoloji Akademisi, an initiative by Google Türkiye and T3 Vakfı, which offers hands-on education in artificial intelligence, machine learning, and data science. The program provides practical experience with AI technologies, including participation in workshops and collaborative projects, enhancing my skills for solving real-world challenges. This training is shaping my expertise in AI and preparing me for a successful career in the technology industry.

#### Core Team Member - AI Developer,

#### Huawei Student Developers - Firat University

2024 – 2026 | Elazığ, Turkey

As a team member of Huawei Student Developers at Firat University, we actively participate in various competitions to enhance our skills in technology and innovation. We engage in continuous learning by attending online training sessions provided by Huawei, which help us stay updated on the latest developments in the tech industry. Through these activities, we are not only improving our technical knowledge but also fostering teamwork and problem solving skills by applying our learning to real-world challenges

#### C++ Artificial Intelligence Developer, Gamelab İstanbul

2022 – 2022 | İstanbul, Turkey

I worked on artificial intelligence development using C++ at Gamelab İstanbul. I designed and developed a custom artificial intelligence library for the company's game engine. As part of this role, I optimized in-game AI behavior algorithms and ensured a flexible and reusable architecture. Additionally, I played an active role in performance improvements and debugging processes.

### PROFILE

I am a passionate Software Engineer specializing in artificial intelligence, machine learning, and full-stack development. Currently pursuing my degree at Firat University, I have gained hands-on experience through industry collaborations, including my role as a Google AI Academy trainee and a Huawei Student Developer.

With expertise in Python, C++, Java (Spring), JavaScript (React, Node.js), SQL, and cloud platforms (AWS, Google Cloud, Huawei Cloud), I have worked on diverse projects such as AI-powered medical diagnostics, financial risk assessment, and video content analysis. My work involves developing deep learning models, NLP applications, and automation tools to solve real-world challenges.

Beyond technical skills, I am a problem solver and an innovative thinker, always seeking to bridge technology and real-world impact. Whether optimizing AI algorithms for game development at Gamelab İstanbul or designing predictive analytics models, I am dedicated to creating scalable, impactful solutions.

I thrive in collaborative environments and am always exploring new technologies, contributing to open-source projects, and pushing the boundaries of AI and software engineering.

### PROJECTS

#### Video Content Analysis and Summarization System

Description: Built a video content analysis system that identifies key scenes and generates summaries for educational and entertainment purposes. Integrated speech-to-text, image analysis, and keyword filtering.

Technologies: Python, OpenCV, PyTorch, Hugging Face Transformers, Flask/Streamlit

## LANGUAGES

English	● ● ● ● ●
German	● ● ● ● ●

## EDUCATION

**Software Engineering, Firat University**  
2022 – 2026 | Elazığ, Turkey

**Computer Science, Kharkiv National University**  
2021 – 2022 | Kharkiv, Ukraine

## SKILLS

Machine Learning / Deep Learning	● ● ● ● ●
Data Science Data Science	● ● ● ● ●
R Language	● ● ● ● ●
Python Language	● ● ● ● ●
Cloud Computing (AWS, Azure, Google Cloud, Huawei Cloud)	● ● ● ● ●
SQL	● ● ● ● ●
Javascript (React,React Native,NodeJs,Nextjs)	● ● ● ● ●
C/C++ (STL, Boost, OpenMP, CUDA)	● ● ● ● ●
Java(Spring)	● ● ● ● ●
Flutter/Dart (Riverpod, GetX)	● ● ● ● ●
Big Data(Spark, Kafka)	● ● ● ● ●
DevOps (Docker, Kubernetes, CI/CD)	● ● ● ● ●
Computer Vision (OpenCV, YOLO, TensorFlow)	● ● ● ● ●
NLP (Transformers, BERT, GPT, Hugging Face)	● ● ● ● ●
Embedded Systems (Arduino, Raspberry Pi,RLP)	● ● ● ● ●
Microservices ((GraphQL REST,)	● ● ● ● ●
Game Dev (Unity / Unreal Engine)	● ● ● ● ●

### **Credit Risk Analysis Platform**

Description: Developed a credit risk analysis platform for financial institutions, utilizing machine learning to assess the risk of customers applying for loans. The system predicts risk scores based on customer data such as income, age, and credit history.

Technologies: Python (Scikit-learn, TensorFlow), Flask/Django, Pandas, SQL

### **Sales And Demand Forecasting Platform**

Description: Created a sales and demand forecasting platform to predict future sales and stock needs by analyzing past sales data. Implemented seasonal trend analysis and optimized stock levels.

Technologies: Python, Statsmodels (ARIMA), TensorFlow (LSTM), Tableau/Power BI.

### **Social Media Data Analysis, Creator**

Description: Developed a social media analytics tool that collects data from Twitter and Instagram, performs sentiment analysis, and visualizes trends to assist in marketing and branding strategies.

Technologies: Python, Tweepy, NLTK, Matplotlib, Dash.

### **Hospital Management System, Creator**

Description: Designed and implemented a hospital management system to manage patient, doctor, and medication data, including features for appointment scheduling and inventory tracking.

Technologies: Java (Spring Boot), MySQL, React/Vue.js.

### **E-Commerce Management Panel, Creator**

Description: Developed a comprehensive e-commerce management panel for managing products, orders, and customer data, with features for inventory control and analytical reporting.

Technologies: React, Node.js, MongoDB, REST API.

### **Reporting and Automation Tool**

Description: Built a tool for automating the generation of financial and business reports, with scheduled report creation, email distribution, and data visualization.

Technologies: Python (Pandas, Matplotlib), SQL, Flask/Django

## CERTIFICATES

- Huawei Cloud Developer Certification
- Turkcell Geleceği Yazarlar Python 101 Certification
- Turkcell Geleceği Yazarlar Python 201 Certification
- Turkcell Geleceği Yazarlar Python 301 Certification
- Turkcell Geleceği Yazarlar Python 401 Certification
- Turkcell Geleceği Yazarlar Introduction of Data Science and Artificial Intelligence Certification
- Google Yapay Zeka Akademisi Trainee Certification
- Gamelab İstanbul C++ Artificial Intelligence Developer Certification
- Coursera Foundations of Data Science Certification
- Coursera Started With Python Certification
- Coursera Project Planning: Putting it All Together Certification
- Coursera Project Initiation: Starting a Successful Project
- Coursera Foundations of Project Management Certification
- Coursera Go Beyond the Numbers: Translate Data into Insights Certification
- Coursera The Power of Statistics
- Coursera Regression Analysis: Simplify Complex Data Relationships Certification
- Coursera Project Execution: Running the Project Certification
- Coursera Agile Project Management Certification
- Coursera Capstone: Applying Project Management in the Real World Certification
- Google Skill Boost Cloud Certification

### **AI-Driven Automated Content Generation**

Description: Built an AI tool that generates high-quality written content based on provided keywords. The system uses natural language generation (NLG) to create articles, blog posts, and product descriptions automatically.

Technologies: Python (GPT-3 API, Hugging Face Transformers), Flask.

### **AI-Based Image Recognition System for Medical Diagnostics**

Description: Created an AI system to assist doctors in diagnosing diseases by analyzing medical images such as X-rays and MRIs. The system uses deep learning to identify abnormalities and provide suggestions for further tests.

Technologies: Python (TensorFlow, Keras), OpenCV, CNN, Flask

### **AI-Powered Language Translation System**

Description: Created an AI-based language translation system that utilizes neural machine translation (NMT) to provide accurate translations across multiple languages in real-time.

Technologies: Python (TensorFlow, OpenNMT), Flask, Docker.

### **AI-Powered Visual Search Engine**

Description: Developed an AI-based visual search engine that allows users to search for products or information by uploading images. The system uses image recognition and deep learning to match images to relevant results.

Technologies: Python (OpenCV, TensorFlow, Keras), Flask.