

GOKALP EKER

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EDUCATION

Cankaya University - Ankara, Turkey

B.S., Computer Engineering (3rd Year Student)
09/2023 - Present | CGPA: 2.85/4.00

TECHNICAL SKILLS

Languages: C++, C, Python, Bash
Tools & Libraries: Git, GitHub, OpenCV, NumPy, Pandas, PyTorch, Matplotlib, NMAP, Kali Linux
Hardware/IoT: ESP32, Arduino (ATmega32U4), CC1101, PlatformIO, Blynk IoT Platform
Core Knowledge: Embedded Systems, Computer Vision, Cyber Security, Deep Learning, OOP

TECHNICAL PROJECTS

AI-Generated Image Detection System (ResNet18)

- Developed a binary classification model to distinguish between real and AI-generated images using Transfer Learning on the ResNet18 architecture.
- Trained on the CIFAKE dataset (100k+ images) and achieved high classification accuracy on held-out test data.

HID Device Security Research & Defense Tool

- Explored HID-based attack vectors by implementing automated keystroke injection scripts using Arduino (ATmega32U4) and the Keyboard library.
- Focused on stabilization and delay management techniques for cross-platform payload execution.

Wi-Fi Security Assessment & Captive Portal Defense Simulation

- Simulated phishing and network redirect attacks by setting up a malicious access point using ESP32.
- Implemented DNS manipulation to redirect users to a custom captive portal, demonstrating vulnerability to man-in-the-middle attacks.

IoT-Based Smart Air Quality & Environment Monitor

- Designed a real-time monitoring system using ESP32 and C++ with integrated DHT22 and MQ-135 sensors.
- Configured local visualization via I2C on SSD1306 OLED and remote monitoring via Blynk IoT Platform.

Smart Document Scanner

- Developed a C++ & OpenCV pipeline using Canny Edge Detection and Transformation Matrices for document warping.
- Enhanced text readability and removed environmental shadows through Adaptive Thresholding techniques.

ACADEMIC & LANGUAGES

Exams: ALES Score: 82.30
Languages: Turkish: Native, English: Advanced
Interests: Edge AI, Open Source Contribution, Generative AI, Competitive Programming, RF Analysis.