Mohamad Adel Kabbani

Telecommunications Engineer | MSc Data Analytics | IoT Security & Infrastructure Modeling Enthusiast
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Professional Summary

Multidisciplinary engineer and MSc Data Analytics candidate with 6+ years of experience in network infrastructure, cybersecurity, and data-driven decision-making. Specialized in **IoT anomaly detection**, **system simulations**, and **resilient network design** through **machine learning** and **edge/cloud integrations**.

Adept at translating technical insights into practical, scalable solutions—especially within **resource-constrained and real-time environments**.
 Currently seeking to contribute to the **Resilient Infrastructure Technology Suite (RITS)** project by applying a unique blend of **network engineering, AI**, and **cross-domain research acumen**.

Core Competencies

- **System Modeling & Infrastructure**: Network simulation (GNS3), VLAN design, OSPF routing, WAN/LAN architecture

- **Cyber-Physical Systems**: IoT security, anomaly detection, federated learning, edge computing

- **Machine Learning & Data Analytics**: Python (Pandas, Scikit-learn), CNN, One-Class SVM, PCA, model evaluation

- **Data Visualization & Tools**: Tableau, Power BI, Git, Jupyter Notebook

- **Certifications**: Cisco CCNA | Project Management Bootcamp (Excelr)

- **Languages**: English (C1), Arabic (Native), Turkish (B2), German (A1 – beginner)

Education

MSc Data Analytics *(Expected Apr 2025)*
 Berlin School of Business & Innovation – Berlin, Germany

BSc Informatics Engineering
 Ittihad Private University – Aleppo, Syria

Thesis (In Progress)

Anomaly Detection for IoT Networks Using Machine Learning

- Designed a **simulated hospital IoT network** for security modeling using GNS3

- Compared performance of models like **One-Class SVM vs. Isolation Forest**

- Integrated **edge/cloud computing, dimensionality reduction**, and **federated learning**

- Developed the **CNNwGFC model** achieving **95%+ accuracy** in anomaly detection

- Addressed real-world challenges: **energy efficiency**, **multi-class classification**, and **model scalability**

  🟢 Demonstrated ability to model **resilient infrastructures** and derive **actionable insights** from complex, real-time systems.

Selected Projects

Smart Anomaly Detection for Resilient IoT Infrastructure

- Simulated a secure hospital infrastructure mimicking EWF interdependencies

- Implemented **feature selection and SHAP analysis** to identify mission-critical vulnerabilities

- Proposed scalable ML-based detection strategies for decentralized networks

Predictive Analytics for Coffee Trade (Tableau + Python)

- Built regression models to forecast global coffee exports

- Interpreted trends with Tableau dashboards for policy impact simulation

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Professional Experience

Assistant Manager – TakeTaxi UG, Berlin
Oct 2021 – Present

- Analyzed real-time fleet movement and customer behavior to optimize routing efficiency

- Applied **data-driven models** to enhance logistics resilience during system outages

IT Administrator – Epigra, Istanbul
Jan 2016 – Apr 2018

- Maintained **enterprise network infrastructure** with 99.9% uptime

- Configured **firewalls, routers, and NAT policies** for secure communication

Sales Support Assistant – Yetkin Bayer, Istanbul
May 2018 – Jul 2019

- Streamlined CRM workflows and implemented structured lead tracking

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Certifications

- **Cisco Certified Network Associate (CCNA)**

- **Interconnecting Cisco Networking Devices (Part 1 & 2)**

- **Project Management Bootcamp** – Excelr (Agile, Risk, Estimation, Critical Path)

Research & Technical Tools

- **Simulation & Modeling**: GNS3, VLAN, OSPF, BGP, DoS/Access Attack Simulation

- **AI & ML**: One-Class SVM, CNN, Isolation Forest, Feature Engineering

- **Cloud & Dev Tools**: AWS (Basics), Git, Jupyter, Excel, SQL

Soft Skills & Research Strengths

- 🧠 Strong analytical mindset with research exposure in **academic and applied AI settings**

- 🔁 Quick learner who adapts to evolving tech stacks and interdisciplinary collaborations

- 🛠️ Proven resilience working in **resource-constrained, real-world environments**

- 🧩 Curious, puzzle-solving attitude toward emerging infrastructure and network systems

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