

# Ishaq Paktin Yar

Aspiring Data Scientist

[sultan.ishaq.321@gmail.com](mailto:sultan.ishaq.321@gmail.com) +90 (501) 336 5086  [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

## SUMMARY OF QUALIFICATIONS:

Research-oriented Computer Engineering graduate (**GPA 3.5/4.0**) with 3+ years in ML and system architecture. Demonstrated expertise in predictive modeling, increasing protein classification accuracy from 86% to 98%. Engineered high-integrity RDBMS for 1,800+ users and secured critical datasets by mitigating cyber-attacks and unauthorized cryptocurrency mining. Seeking MSc in Data Science to specialize in time-series forecasting and predictive operational efficiency, along with a position to contribute to applied AI research in health and wellbeing.

## EDUCATION:

09/2021 – 07/2025

### B.Sc. in Computer Engineering - ISTANBUL AREL UNIVERSITY (*High Honors*)

- **Thesis:** *"ClimatePulse": Multivariate Time-Series Forecasting for Air Quality & climate"*
- **Supervisor:** Asst. Prof. Mert YAĞCIOĞLU
- **Relevant coursework:** Machine Learning, Deep Learning, NeuralForecast, Signal Processing, Probability & Statistics, DBMS, Data Structures

## WORK EXPERIENCE:

07/2024 - present

### Undergraduate Researcher (PartTime) - JRAVI LAB University of Colorado Anschutz Medical Campus

- **Optimized Model Performance:** Engineered an ML pipeline using Scikit-learn and Pandas that increased protein classification accuracy from **86% to 98%**.
- **Cost-Efficient Architecture:** Achieved superior accuracy while significantly **reducing computational resource costs** by ~30% compared to large, pre-trained models through iterative testing and strategic feature engineering.
- **Collaborative Data Science:** Partnered with bioinformatics subject experts to translate complex biological datasets into structured features, ensuring the model generalized across diverse datasets.

08/2025 - Present

### Software Developer - PAREM ACADEMY

- Developed and maintained client-side platforms with a focus on data accuracy and privacy.
- Researched project ideas and integrated data-driven insights for startup-level architectures.
- Managed production deployment, real-time monitoring, and incident handling.
- **Lead Developer (Bitatlim):** Architected a production-grade delivery platform, utilizing data telemetry to optimize routing and mitigating cyber-attacks to secure customer data.

09/2023 – 09/2025

### IT Coordinator (PartTime) - ISTANBUL&I

- **Internal Database Development:** Designed and deployed a centralized SQL-based RDBMS replacing Excel files, actively managing 1,800+ user records and 200+ active members.
- **Process Automation:** Replaced manual Excel workflows with automated systems, reducing HR processing time by ~60% and accelerating organisational operations by ~40%.
- **Data-Driven Decision Support:** Produced structured reports from live data used directly by the board for operational and planning decisions.
- **Cross-Functional Technical Support:** Managed internal systems and website access, ensuring secure usage for staff and volunteers.

02/2025 – 08/2025

### Software Developer - DEVSECURE

- Developed requested webpages, custom Chrome extensions and utility software for internal and client use.
- Contributed features and bug fixes to PHP-based client websites.
- Assisted in onboarding and mentoring new interns through code reviews and hands-on training.

## KEY PROJECTS:

### BiTatlim Marketplace Platform ([bitatlim.com](http://bitatlim.com))

- **Tools/Tech:** Next.js, TypeScript, Node.js, Redis, Express, PostgreSQL, REST API, JWT, TailwindCSS
- **Description:** Developed a production-grade delivery platform using backend architecture designed for secure data handling. I leveraged data telemetry and traffic pattern analysis to optimize delivery routing, transitioning the project from simple system monitoring to predictive operational efficiency. Additionally, I engineered secure systems that mitigated cyber-attacks, ensuring the integrity of the platform's datasets.

### Public Health Dashboard ~[Thesis Project](#)

- **Tools/tech:** Django, RestAPI, SQLite, RASA, NeuralForecast, TimesNet, JS, Caching, APScheduler, Pandas, NumPy
- **Description:** Architected a centralized dashboard integrating disparate climate, air quality, and meteorological datasets to deliver real-time environmental insights. I implemented a TimesNet model for high-accuracy time-series forecasting of health risks, moving beyond simple data

visualization to predictive modeling. The platform combined these ML forecasts with a Rasa-powered chatbot to provide personalized, actionable health data, ensuring technical complexity translated into user-centric business outcomes.

### Protein Function Prediction ~JRaviLab Research

- **Tools/tech:** PyTorch, CNN, Self-Attention, SVM, Data Analytics, Bio-Informatic-tools, Pandas, NumPy
- **Description:** Developed models to predict protein function from sequences, increasing prediction accuracy from 86% to 98%. A project towards Computational evolutionary approaches research

### Centralized NGO Management System ~Istanbul&i

- **Tools/tech:** Django, RestAPI, JS, SQLite, Pandas, NumPy, Scheduler, TelegramAPI, SMTP automated-email
- **Description:** Architected a centralized RDBMS for 1,800+ user records, replacing manual Excel tracking with an automated "single source of truth". This established a robust data infrastructure that improved overall organizational workflow by 40% and reduced HR administrative overhead by 60%.

### Car Feature Classification System

- **Tools/tech:** PyTorch, R-CNN, YOLOv8, CNN, PaddleOCR, CUHK CompCars, Large-License-Plate-detection-Dataset
- **Description:** Classified car model, engine size, plate, and other features using fine-tuning and multi-stage architecture. Achieved overall F1-score of 0.80.

## CERTIFICATIONS:

(10/2023)	IBM AI Engineering – <b>IBM Coursera</b>
(09/2022)	Exploratory Data Analysis – <b>IBM Coursera</b>
(02/2023)	Statistics – <b>Stanford Coursera</b>
(12/2024)	IELTS – <b>British Council</b>

## SKILLS:

### Core Tech Stack

- **Tech Languages:** Python, TypeScript, Java, C++
- **ML/AI:** PyTorch, Transformers, CNNs, RCNNs, RNNs, SVM, NeuralForecast, Scikit-Learn, RASA
- **Data:** Pandas, NumPy, OpenCV, Feature Engineering, DBMS (Postgres, MySQL, Sqlite)
- **Web Development:** Django, NextJS, NestJS, RestAPI, Flask, JavaScript, APScheduler

### Familiar With

- PHP, PaddleOCR, TelegramAPI, SMTP, Manifest V3
- Git, AWS, Docker, matplotlib, Bioinformatics Tools, Data Analytics/Preprocessing

### Languages

English (Fluent), Persian (Fluent), Turkish (Fluent), Pashto (Native), Urdu (Fluent), Spanish (Beginner)

## COMMUNITY ENGAGEMENT:

- **T3 AI'LE - Data Commission Volunteer**
- **Bilim Üsküdar Science Center – Teaching Asst. 12/2023 – 03/2024**
- **English Tutoring Program | Founder (2024)**
- **i&i Book Club | Founder (2024) | Reached 90+ members**
- **Best Diplomats - Local Team Coordinator**
- **Sokak Lambasi Solidarity & Assistance Assoc. – Volunteer since 07/2023**