



Ahmed Hanif

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EDUCATION AND TRAINING

24/07/2022 – 31/05/2026 Doha, Qatar

BACHELOR OF SCIENCE IN DATA SCIENCE AND ARTIFICIAL INTELLIGENCE University of Doha for Science and Technology (UDST)

1. Core training in data science, artificial intelligence, and computational problem-solving, including statistics, probability, linear algebra, calculus, and discrete structures.
2. Practical and theoretical foundations in machine learning, data analysis, data engineering, databases, and information retrieval.
3. Programming and software development using Python, Java, SQL, and web technologies, with applied coursework in data visualization, business analytics, and project management.
4. Experience with research-oriented coursework, applied projects, and ethical considerations in computing and AI systems.

Website <https://www.udst.edu.qa/> | **Final grade** 3.99 | **Type of credits** Credit Hours | **Number of credits** 126

SKILLS

Programming Languages

Python | Java | Javascript

Machine Learning & Data Analysis

Pandas | Numpy | Sci-kit Learn | Pytorch | Seaborn | Matplotlib | Power BI

Databases & Data Platforms

SQL | Redis | Supabase

Tools & Infrastructure

Git | Celery | RabbitMQ | mpi4py

Web & Backend Development

HTML | CSS | Node.js | React | FastAPI

PUBLICATIONS

2025

Inferring Learner Styles via Clustering of Uneven MOOC Behavioral Data

Research paper proposing a data-driven approach to infer learner styles by clustering behavioral interaction data from a MOOC platform. The study applies preprocessing, dimensionality reduction, and k-means clustering to identify meaningful learner groups and map them to Felder–Silverman learning style dimensions, demonstrating the feasibility of behavioral inference without self-reported questionnaires.

Journal Name: International Conference on Education Technology and Computers (ICETC 2025) | **Publisher:** IEEE

● WORK EXPERIENCE

IMPACT MEASUREMENT & SUSTAINABILITY FELLOWSHIP – HULT PRIZE – 02/02/2026 – Current

- Analyze and track social and environmental impact data across the Hult Prize ecosystem, focusing on startup outcomes, alumni ventures, and internal operational metrics.
- Execute due diligence for global competition stages, including screening applications, conducting founder interviews, and evaluating startup traction and investment readiness.
- Develop data-driven reports and dashboards to inform leadership decision-making, culminating in the publication of the annual Hult Prize Impact Report.

UNIVERSITY OF DOHA FOR SCIENCE AND TECHNOLOGY – DOHA, QATAR

● UNIVERSITY RESEARCH ASSISTANT – 26/01/2025 – Current

- Built ML pipeline to classify student learning/behaviour patterns from LMS data.
- Performed feature engineering, clustering, and dimensionality reduction for pattern discovery.
- Conducted literature review and identified research gaps to guide model design.
- Supported experimentation and evaluation of unsupervised/semi-supervised approaches.

● IT HELP CENTER ADMIN ASSISTANT – 01/09/2025 – Current

Performed Administrative Duties, leading peer tutoring operations, overseeing 8 tutors and 50+ tutees, organizing schedules, and coordinating recap sessions in Discrete Structures and Computer Programming for 50+ students with department heads and supervisor.

● UNIVERSITY TEACHING ASSISTANT – 01/09/2024 – 01/09/2025

- Supported lab sessions and tutorials in programming, discrete structures, and databases.
- Helped students debug code, understand core concepts, and improve performance

● EDITORIAL ASSISTANT – 01/09/2023 – 30/06/2024

- Supported students with academic writing, research structure, APA formatting, and clarity.
- Helped prepare reports and presentations; provided feedback aligned with course rubrics.
- Coordinated iterative improvements with instructors and support staff.

SOFTWARE DEVELOPER – SPORTS VECTOR - QSTP LLM – 28/09/2025 – 15/12/2025 – DOHA, QATAR

- Refactored React components and resolved front-end/back-end integration issues.
- Redesigned Supabase schema (relationships, enums, constraints) and validated migrations.
- Improved user flow and platform stability through testing and structured fixes.
- Worked across React (TypeScript) + FastAPI + Supabase in a production codebase.

UNIVERSITY RESEARCH ASSISTANT – QATAR COMPUTING RESEARCH INSTITUTE (QCRI) – 11/05/2025 – 15/07/2025

- Research on molecular sequence generation using deep learning approaches.
- Worked with sequence models and modern ML pipelines; contributed to code refactoring and experiments.
- Supported exploration of reinforcement learning methods for property-optimised generation. Documented findings and compared approaches for model performance and feasibility.

DATA SCIENTIST – OPTIMUM SYSTEMS – 01/06/2024 – 31/07/2024 – DOHA, QATAR

- Cleaned and automated data processing workflows for internal AI tasks.
- Built/experimented with NLP models and information retrieval workflows for document guidance.
- Developed structured extraction pipelines (JSON → spreadsheets) to support reporting.

● PROJECTS

01/10/2025 – 11/2025

QARMarket – Qatar's Premier Car Market Intelligence

Built an end-to-end data pipeline to collect, clean, and analyze large-scale car listing data from multiple online sources. Developed analytics and prediction components with a web-based interface.

Technologies: Python, Selenium, Pandas, Scikit-learn, FastAPI, React
Outcome: Fully functional prototype with data-driven market insights.

Link <https://qarmarket.vercel.app/>

01/12/2025 – 15/12/2025

Find Common Time – Friend Groups Meeting Scheduler

Designed and implemented a lightweight scheduling system that enables groups to coordinate meeting times through a shared link without accounts or authentication. Focused on reducing coordination overhead by aggregating individual availability into immediately visible common time slots.

Technologies: Next.js, TypeScript, Tailwind CSS, Supabase

Outcome: Fully functional web application demonstrating user-centric design and backend data coordination.

Link <https://findcommontime.vercel.app/>

06/05/2025 – 31/05/2025

Health Dashboard for Student Well-Being

Designed a dashboard integrating wearable data and self-reported measures to compute a composite risk score and predict short-term well-being trends. Emphasized interpretability and visualization.

Technologies: Python, Power BI, Pandas

Outcome: Applied project demonstrating predictive analytics for health data.

Link https://www.linkedin.com/posts/activity-7344516684411457536-Mi8t?utm_source=share&utm_medium=member_desktop&rcm=ACoAADWlOIEB1VBd4ozMA2ICAYIHpTprSMknnz0

01/10/2025 – 11/2025

Waste Classification with Deep Neural Networks (DNN)

Developed a deep neural network to classify waste images into glass, metal, paper, and plastic, achieving an F1-score of 0.69. Applied regularization, data augmentation, and hyperparameter tuning to address overfitting and conducted error analysis to assess architectural limitations.

Technologies: Python, PyTorch, Deep Learning

Outcome: Demonstrated performance limits of fully connected DNNs compared to CNNs due to loss of spatial information.

Link <https://github.com/ahmedhanifc/Waste-Classification-DNN>

01/04/2025 – 14/04/2025

Comparison of Informed and Uninformed Search Methods for Maze Explorer in a Distributed Environment

Designed and evaluated a maze-solving framework to compare informed and uninformed search algorithms in both sequential and distributed settings. Implemented A* and Depth-First Search alongside the Right-Hand Rule baseline, and analyzed their behavior across multiple maze configurations. Conducted systematic performance evaluation using metrics such as path length, computation time, speedup, and efficiency, highlighting trade-offs between optimality and computational cost in distributed execution.

Technologies: Python, Celery, RabbitMQ, Redis, MPI4PY

Outcome:

Experimental results showed that A* consistently produced the shortest paths, while distributed execution improved performance scalability compared to sequential runs.

Link <https://github.com/ahmedhanifc/Comparison-of-Informed-and-Uninformed-search-methods-with-the-Right-Hand-Rule-for-Maze-Explorer-Game>

04/03/2025 – 19/03/2025

Research and Analysis of Differential Evolution (DE)

Conducted a structured study of Differential Evolution, a population-based meta-heuristic optimization algorithm, focusing on its theoretical foundations and operational mechanisms. Analyzed the mutation, crossover, and selection processes and compared DE with other evolutionary algorithms, including Genetic Algorithms, to highlight strengths, limitations, and suitability for continuous optimization problems.

Outcome:

Academic presentation clarifying the role of Differential Evolution within the broader class of meta-heuristic optimization methods.

Link https://www.canva.com/design/DAGiWZ8XM-U/HtydMZKj20wVd_MA0IEAFw/view

HONOURS AND AWARDS

29/01/2026

1st Place Winner - Lifelines Hackthon – Carnegie Mellon University Qatar

To address low connectivity and literacy, we developed an ESP-32 and E-ink-powered emergency system that utilizes LoRa modules to dispatch critical health interventions and knowledge bank access from pregnant women to NGO responders.

Link https://www.linkedin.com/posts/activity-7423451043776278528-dBdt?utm_source=share&utm_medium=member_desktop&rcm=ACoAADWlOIEB1VBd4ozMA2ICAYIHpTprSMknnz0

26/11/2025

Dean’s List (Academic Excellence) – University of Doha for Science and Technology

Awarded for outstanding academic performance, achieving a GPA of 4.0 during the academic year.

20/09/2025

Conference Paper Acceptance – ICETC 2025 – International Conference on Education Technology and Computers (ICETC)

Acceptance of a peer-reviewed research paper on clustering behavioral MOOC data to infer learner styles, presented at an international academic conference.

10/03/2025

Certificate of Excellence – Education Above All (EAA)

Recognition for excellence and contribution in academic and community-focused initiatives supported by Education Above All.

LANGUAGE SKILLS

Mother tongue(s): **URDU**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	B2	C1	C1	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

EXTRACURRICULARS

01/01/2025 – CURRENT

Hhsaas Technologies — Co-Founder & Chief Product Officer

Co-founded Rifaq, a multimodal mental-health platform integrating wearable, conversational, and self-report data. Contributed to a systematic review of mental-health technologies and designed a structured data-collection and documentation workflow using Overleaf. Led technical development of a working prototype under the Qatar Innovation Program, advancing to the second stage. Implemented a React Native mobile application with a Node.js backend, integrated LLM services via FastAPI, and developed data pipelines using MongoDB. Worked with Android Studio and Wear OS to integrate physiological data through Health Connect. Successfully incubated at Qatar Science and Technology Park and registered as a trade company.

Links <https://rifaq.netlify.app/> | <https://youtube.com/shorts/4-LUSRvLXD8>

15/11/2025 – 15/11/2025

Academic Conference Presentation

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Presented Ehsaas Technologies research at an academic cancer conference at the University of Doha for Science and Technology, focusing on data-driven and multimodal approaches to mental-health support and early intervention.

Links <https://ahmedhanif.com/blog/entry/rifaqs-presentation-at-cancer-conference-udst-2025> | <https://youtube.com/shorts/N0ZNN72zDIA>