

Hysam Amran

Rawalpindi, Pakistan | +923010105220 | hysamk2417@gmail.com
linkedin.com/in/hysam | github.com/hysamkhan

AI/ML ENGINEER | DATA SCIENTIST | Data Science graduate from FAST NUCES with hands on experience across machine learning, big data, ETL pipelines, NLP chatbots, recommendation systems and full stack development. Strong in Python, SQL, PySpark, Docker, TensorFlow and modern web frameworks. Top Rated freelancer on Upwork with proven leadership track record running campus societies and inter university technical events.

TECHNICAL SKILLS

Languages: Python, SQL, NoSQL, C++, JavaScript, HTML, CSS

Frameworks & Tools: REST Framework, React, MERN Stack, MEAN Stack, TensorFlow, PySpark, Docker, GitHub, MongoDB

Data Science: ML, Big Data, ETL, Data Warehousing, NLP, Chatbot Development, MLOps, DevOps

Visualization & Other: Tableau, D3.js, Selenium, BeautifulSoup, Web Scraping, Game Development

EXPERIENCE

Freelance AI / ML Engineer, Top Rated

Jul 2024 – Present

Upwork / Remote

Global Clients

- Delivered web scraping, data crawling, data scraping, machine learning models, NLP chatbots, data analytics solutions and full stack applications for international clients across multiple industries.
- Earned Top Rated status through consistent quality delivery, on time milestones and strong repeat client engagement.

Development Intern

Jun 2025 – Aug 2025

Blutech Consulting

Islamabad, Pakistan

- Gained exposure to data warehousing concepts including dimensional modeling with Star and Snowflake schemas and ETL workflows.

Research Intern

Jun 2023 – Sep 2023

SEECs, NUST

Islamabad, Pakistan

- Contributed to research focused data science and machine learning applications spanning data preprocessing, model experimentation and result reporting.

PROJECTS

Point-Supervised Building Segmentation (Remote Sensing)

Python, PyTorch, U-Net, ResNet34

Built a weakly supervised segmentation model on Massachusetts aerial imagery using partial focal cross-entropy with only 50 simulated click labels per patch; achieved 0.56 val mIoU vs 0.71 full-mask baseline and ran ablations on point count and sampling strategy.

Cognitive Analysis and Focus Detection (FYP)

Python, Multimodal ML, Eye Tracking

Built a multimodal AI system that analyzes cognitive load and focus through eye tracking and keystroke monitoring for real time mental engagement assessment.

Data Warehouse for METRO Shopping

SQL, ETL, Star Schema, Eclipse

Designed a near real time ETL pipeline and star schema data warehouse prototype supporting retail analytics and OLAP style reporting over transactional data.

Physics Domain Chatbot

Python, TensorFlow, NLP

Developed a domain specific NLP chatbot to assist students with Physics queries through intent classification and trained response generation.

Amazon Product Recommendation System

MongoDB, PySpark, Big Data

Built a large scale product recommender using MongoDB and PySpark to process retail transaction data and generate personalized recommendations.

University Management System

Full Stack, REST APIs

Built a full stack system with Admin, Teacher and Student roles supporting course evaluations, grade management and a centralized academic records database.

Audio Similarity Detection with LSH

Python, Locality Sensitive Hashing

Implemented audio similarity detection using Locality Sensitive Hashing for fast approximate nearest neighbor search on audio datasets.

LEADERSHIP & ACTIVITIES

- **President**, FAST Alumni and Outreach Society (FAOS), 2023 – 2024
- **Head of Events**, FAST Data Science Society (FDSS), 2021 – 2022
- **Head Organizer**, Job Fair and Alumni Homecoming, campus wide networking events
- **Head**, Datathon at NASCON 2022, led inter university competition and technical coordination
- Competitor: Big Data Track (NASCON), ML Competition (SOFTEC)

EDUCATION & CERTIFICATIONS

FAST National University of Computer and Emerging Sciences

2021 – 2025

Bachelor of Science in Data Science

Islamabad, Pakistan

Relevant Coursework: Data Science, Machine Learning, Deep Learning, Data Analytics, Data Visualization, Data Mining, MLOps

A Levels, Roots School & University of Birmingham School, 2019

O Level AEC, Birmingham, UK, 2017

Certifications: Vector Databases for RAG: An Introduction | **IBM**