

# Hassan Shakil

Data Science & Machine Learning

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## EDUCATION

**Bachelor of Science in Data Science — FAST-NUCES, Lahore**

2024 – Present

Relevant Coursework: Data Structures & Algorithms, Statistics, Linear Algebra, AI, DBMS

## TECHNICAL SKILLS

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

**ML / Data Science:** Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, KNN, Logistic Regression, EDA, Feature Engineering

**Tools & Platforms:** Git, GitHub, Jupyter Notebook, Google Colab, Microsoft Azure

**Frameworks:** React, Node.js, Flutter

**Databases:** MySQL

## EXPERIENCE

**Flutter Development Intern — SoftThrive**

6 Weeks, 2024

- Built cross-platform mobile UIs using Flutter for iOS & Android from a single codebase.
- Contributed to a medical mobile app, implementing UI components in a professional environment.

## PROJECTS

**MediAlert — AI Health Facility Platform | [Github](#)**

Python, Agentic AI, React, Node.js

Team Project — Competed in MIT's Hackathon Conducted by Hackanation remotely using Data-Bricks DataSet.

- Built a platform that uses agentic AI to help users discover and understand nearby health facilities.
- Integrated location-aware agents to surface real-time facility data, ratings, and personalized recommendations.

**Fake News Detection | [Github](#)**

Python, Scikit-learn, Pandas, Matplotlib, Seaborn

- Engineered an end-to-end ML pipeline to classify news as real or fake using a Kaggle dataset.
- Compared KNN and Logistic Regression classifiers, achieving 86%+ accuracy via systematic evaluation.

**Fretron — Cargo Space Marketplace | [Github](#)**

React, Node.js, JavaScript

Team Project — 3 Members

- Co-developed a full-stack platform for freight owners to list unused cargo space (Airbnb-style model).
- Handled frontend (React) and backend API integration (Node.js); managed version control via GitHub.

**FinTrack — Finance Tracking and Management System | [Github](#)**

React, MySQL, JavaScript

Team Project — 3 Members

- Developed a full-stack finance management platform to track expenses, budgets, and transactions.
- Built the frontend using React and integrated backend/database functionality with MySQL for efficient data management.

**Pac-Man / Flappy Bird / Solar Cost Calculator | [Github](#) | [Github](#) | [Github](#)**

C++, x86 Assembly

- Pac-Man: OOP-based console game with classes, inheritance, and encapsulation (Team Project).
- Flappy Bird: Clone in x86 Assembly — game loop, collision detection, keyboard input (Team Project).
- Solar Cost Calculator: C++ utility estimating solar installation costs from user inputs (Team Project).

## ACTIVITIES & ACHIEVEMENTS

- Google Developer Student Club (GDSC) — Active member, FAST-NUCES Lahore.
- SOFTEC Society — Active member, FAST-NUCES Lahore.
- MITHACKATHON by HackNation — Competed in hackathon, building solutions under time constraints.
- FSPC (Fast Speed Programming Competition) — Algorithmic problem-solving competition.
- Cipher Craft — UET Lahore — Cybersecurity-focused competitive event.
- Hackathon — BNU Lahore — University-level hackathon.