

# Hasan Faisal

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[github.com/hasanfaesal](https://github.com/hasanfaesal)

## Education

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**Bahria University**, BS in Artificial Intelligence Sept 2023 — Present

- CGPA: 3.04/4.0 (4th Semester)
- Coursework: Deep Learning, Machine Learning, Databases, Computer Networking

**APS Askari XIV**, FSc Pre-Engineering July 2020 — June 2022

- Marks: 772/1100
- Extra Curricular Activities: Football, Debating Club

## Projects

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**Titanic Survival Classification** github repo

- Achieved 84.6% accuracy using Gradient Boosting and Bayesian Optimization, enhancing feature engineering, cross-validation, and model optimization techniques.
- Tools Used: scikit-learn, numpy, pandas, Optuna

**Barbell Exercises Classifier and Repetition Counter** github repo

- Developed a classifier with 97% accuracy using Random Forest, optimizing sensor data handling for exercise detection and improving model performance with feature extraction using DFT.
- Tools Used: scikit-learn, numpy, pandas, matplotlib, seaborn

**House Prices Regression (Ongoing)** github repo

- Developing a regression model to accurately predict prices based on several features.
- Tools Used: scikit-learn, numpy, pandas, matplotlib, seaborn

## Work Experience

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No formal work experience apart from:

- Working on side projects
- Organizing events related to Computer Science and Philosophy
- Reading research papers

## Certifications

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- Google Advanced Data Analytics
- Google Data Analytics
- Python for Everybody

## Technologies

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**Languages:** Python, R, SQL, C/C++

**Frameworks:** Scikit-learn, PyTorch, NumPy, Pandas, Matplotlib, Seaborn, SciPy, imblearn

**Technologies:** Git, Github/Gitlab, Linux, Docker, Kubernetes(Learning)