Mohammed Auof

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EDUCATION

JAIN (Deemed to be University) *Bangalore, India*

Bachelor of Science in Physics, Mathematics and Computer Science 2023 - 2026

- Applied theoretical knowledge through hands-on projects, practical assessments, and self-driven learning.
- Relevant coursework in Python, SQL, Machine Learning, and Operating Systems.

University of Mysore *Mysore, India*

Bachelor of Computer Applications (Completed 1 year) 2022 - 2023

- Relevant coursework in C Programming, Java

SKILLS

Programming Languages: Python (Pandas, Numpy, Sympy, Scipy, Matplotlib, PVLib), C, C++, SQL, Shell, HTML & CSS, JavaScript, React

Databases: MySQL

Technologies: Machine Learning, Data Structures, Algorithms, Data Analysis, Cybersecurity Fundamentals, Computational Physics

CERTIFICATIONS

- SQL: A Practical Introduction for Querying Databases - Coursera
- The Unix Workbench - Coursera
- Foundations of Cybersecurity – Coursera
- Data Visualization with Python – Coursera
- Computational Physics using Python Programming – Coursera

INTERNSHIPS

JAIN (Deemed to be University) *Bangalore, India*

Research Intern June 2024

- Conducted academic research under faculty supervision, focusing on hypothesis development and experimental design.
- Practiced structured literature review techniques and applied quantitative/qualitative methods to evaluate scientific data.

JAIN (Deemed to be University) Bangalore, India

Intern – Material Sciences July 2025

- Gained hands-on exposure to materials science concepts including crystal structures, thermal properties, and failure analysis.
- Implemented data visualization using Python libraries such as matplotlib to analyze experimental datasets.
- Collaborated in a team-based academic setting, connecting scientific theory with computational analysis.

PROJECTS

Data-Driven Forecasting of Airport Security Processing Time November 2025 – January 2026

- Developed a machine learning model to predict airport security processing time using a realistically generated synthetic dataset.
- Performed data preprocessing, feature analysis, and model comparison, selecting Linear Regression for optimal accuracy and interpretability.
- Evaluated model performance using MAE, RMSE, and R^2 metrics, demonstrating reliable prediction of passenger wait times.