

AFRA FALAKH

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Education

MVJ College of Engineering

Bachelor of Technology in Artificial Intelligence and Machine Learning
CGPA - 7.45

Dec 2021 - Dec 2025

Bangalore, Karnataka

St. Joseph's Pre University Bangalore

Higher Secondary Certificate
Percentage - 76.16%

Jul 2019 - Jun 2021

Bangalore, Karnataka

New Indus Valley Residential School

Secondary School Leaving Certificate
Percentage - 87.52%

May 2017 - Apr 2019

Bangalore, Karnataka

Experience

Octanet | Python

- During my tenure with Octanet, I had the opportunity to contribute to the development of applications and interfaces as part of the company's online team.
- Over the course of a month, I was tasked with developing an ATM interface using Python. This project allowed me to enhance my skills in user interface design and programming, while also demonstrating my ability to work on complex tasks within a set timeframe.
- My contributions not only improved the functionality of the application but also provided a better user experience for end-users.

Projects

NI LabView | G

- Acquired a solid understanding of NI LabVIEW, a graphical programming language widely utilised in industrial automation and electronic device development. By employing blocks or nodes instead of traditional lines of code, grasped the fundamental concepts and implementation techniques.
- Through the creation of 12 programs tackling real-world problems, I've honed our problem-solving skills and seamlessly integrated virtual representations of real instruments.
- The clear distinction between front-end and back-end operations has been thoroughly comprehended, affirming our ability to efficiently develop and execute NI LabVIEW programs.

Design Analysis and Algorithm | Python

- In tackling the job sequencing challenge, utilised a greedy algorithm to streamline task organisation and enhance profitability. By prioritising jobs according to their deadlines and potential profits.

- I selected tasks with the earliest deadlines and highest profit margins at each stage. This approach facilitated the maximisation of immediate gains while ensuring that vital deadlines were met promptly.
- While acknowledging the potential limitations of greedy algorithms in always delivering the globally optimal solution, their straightforwardness and efficiency render them well-suited for job sequencing tasks, particularly in situations where meeting deadlines is paramount.

Blood Donation Management System | SQL

- A web page for Blood Donation Management, backed by SQL DBMS, improves blood bank operations. Blood banks rely on donors for uncontaminated blood by type.
- Manual systems struggle to track quality and donors effectively. This system automates processes, streamlining distribution and reducing reliance on manpower.
- With its user-friendly interface and comprehensive database, it simplifies blood bank management, ensuring quick access to supplies and easier administrative tasks.

Image Classification | Python

- This project develops a CNN for classifying cat and dog images from the Kaggle Cats and Dogs dataset. The dataset was prepared with preprocessing and balancing, followed by constructing and training the CNN model using augmented data.
- After ten epochs, the model showed substantial learning and generalisation, validated by accuracy and loss graphs. Real-image testing confirmed its accuracy.
- This study establishes a foundation for future image classification tasks with potential for optimization and practical use.

Technical Skills

Programming Languages - C++, Java, Python, OS, DBMS, DSA

WebTechnology and Database - HTML , JavaScript

FrameWork and Libraries - Spring , Django , Loki , Poko

Developer Tools - VS Code , Android Studio

ExtraCurricular

Technical Club

- Conducted SDC (Software Development Club) induction program, guiding new members and fostering a collaborative community.
- Organised and led a Web Workshop focused on Python, providing valuable hands-on experience to participants.

Literature Club

- Organised 30+ extempore and GD'S , improved oratory and mechanics of writing of the members.
- Represented college in 5 inter-college fests featuring in Literature and Written Works.
- Coordinated in Swayam fest (MVJCE) , leading a team to deliver a seamless event experience, honing skills in team management, communication, problem-solving, and leadership.

Soft Skills

Communication, TeamWork, Problem Solving, Leadership, Adaptability, Critical Thinking.

Achievements and Certifications

- Big Data Computing - NPTEL
- Introduction to Python - Kaggle
- Introduction to AWS Services - Udemy
- Java Training - IIT Bombay
- HTML Training - IIT Bombay
- Full Stack Development - Google Developers
- Machine Learning - Google Developers
- Slam Poetry - Krupanidhi College , MVJCE