

Avaneesh Kulkarni

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EDUCATION

Birla Institute of Technology and Science, Pilani

B.E. Mechanical Engineering, Minor in Computing and Intelligence , (Minor CGPA: 9.00)

CGPA: 8.35

Oct. 2021 - May 2025

Suryadatta National School

Class XII—Science

87.8%

Mar. 2019

SKILLS & COURSES

Technical Skills: Python, Java, C++, C, Springboot, PostgreSQL Database, MERN Stack, Junit, Selenium Automation

Relevant Courses: Machine Learning, Data Structures and Algorithms, Object Oriented Programming , Operating Systems, Artificial Intelligence, Database Management Systems.

WORK EXPERIENCE

Software Development Intern

Jio Platforms Pvt. Ltd

May. 2024 – Jun. 2024

Pune

- Aided in the development of REST APIs for **CRUD** operations for the **CMS**.
- Configured screens, rows, and content for various launchers using **React** in the **launcher** designer.
- Created a **Server Health Checking** application with **HTML** and **JavaScript** response page.

Market Research Intern

Blu Feather Innovations Pvt. Ltd

May. 2023 – Jul. 2023

Bangalore

- Analyzed data from **200+** surveys to inform product development strategies.
- Formulated **SEO strategies** and social media campaigns, **increasing social media engagement by 15%**.
- Analyzed competitor performance and consumer trends for strategic decision-making.

PROJECTS

Social Media Platform API Development | Web Development

Apr. 2024 - May. 2024

- Engineered a robust **RESTful API** for a social media platform leveraging **SpringBoot** framework and **PostgreSQL**.
- Implemented **authentication endpoints** for user login and signup and **JWT-based security**.
- Developed functionalities** for post and comment management, including creation, retrieval, editing, and deletion.

Server Health Check Application | Springboot

Apr. 2024 - May. 2024

- Integrated a front-end in **JavaScript** and **HTML**, etching data from a **PostgreSQL** database.
- Implemented health checks with valid platform **token authentication** every 15 minutes, with **dynamic page updation**.
- Enabled **on-demand** server status requests for real-time monitoring and troubleshooting.

Early Heart Disease Detection | Machine Learning

Oct. 2023 - Dec. 2023

- Executed Data Preprocessing , Data Cleaning , Feature engineering ,PCA in **Python**.
- Implemented from scratch- **Fisher's Discriminant Analysis**, **Naive Baye's Classifier**, **Perceptron Algorithm** and **Artificial Neural Networks** for predictive modelling of Heart Diseases.
- Inferred and compared results with accuracy's upto **79%**.

Air Traffic Control System | Operating Systems

April. 2024 – May 2024

- Developed a **multi-process** architecture using **POSIX-compliant C**, orchestrating interactions between planes, airports, an Air Traffic Controller (ATC), and cleanup processes.
- Implemented **IPC mechanisms** including pipes and a **single message queue**, ensuring data exchange between processes while maintaining integrity and synchronization.
- Utilized **multi-threading** and **synchronization** primitives such as **mutex** and **semaphore** to enable concurrent handling of arrivals and departures within airport processes, enhancing system efficiency and scalability.

Crime and Communities | Machine Learning

Nov. 2023 - Dec. 2023

- Implemented from scratch-**Decision tree** model with entropy criteria, **Adaboost** using Decision trees and **Multiclass SVM**.
- Compared the models using Time Analysis and Accuracy and optimized results with accuracy's as high as **83%**.

Centralised College Database | Database Management Systems

Apr. 2024 - May. 2024

- Designed and implemented a **Oracle PL/SQL** package featuring procedures and functions to execute DML operations.
- Enforced **Buisness Rules**, enhanced **Data Integrity** and ensured **Consistent Transactions**.

EXTRACURRICULARS

Joint Secretary (Crimson Curtains) — Streamlined partnerships, revamped workflows, promoted teamwork, conducted workshops and increased productivity.