

# D.K.VIJENDRAKUMAR

895-174-2951 / [dkvijendra04@gmail.com](mailto:dkvijendra04@gmail.com) / 14/04/2004  
[www.linkedin.com/in/dkvijendrakumar/](https://www.linkedin.com/in/dkvijendrakumar/)

## Profile Summary

Driven engineering student with hands-on experience in building responsive web applications and integrating RESTful APIs. Skilled in frontend and backend development with a focus on clean design and functionality. Strong collaborator with a solution-oriented approach to real-world challenges.

## TECHNICAL SKILLS

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- **Languages:** Java, Python, C/C++, JavaScript, SQL
- **Web Development:** HTML, CSS, React.js, Node.js, Express.js
- **Concepts:** DSA, OOP, DBMS
- **Developer Tools:** VS Code, AutoCAD, Fusion 360, Postman, Git
- **Python Libraries:** Pandas, NumPy, Matplotlib, scikit-learn, Seaborn
- **Database:** MongoDB
- **Other:** MS Excel

## CERTIFICATES:-

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- **Power BI Workshop** – Data visualization techniques
- **IoT and Robotics Workshops** – Hands-on sessions
- **NPTEL Java Certificate** – Programming in Java

## PROJECTS

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- **Perfume Shop Web Application** **Feb 2025 – Feb 2025**  
**Tech Stack:** React.js, Node.js, Express.js, MongoDB, Axios, CSS
  - Developed a full-stack web application to manage a perfume inventory with seamless CRUD operations.
  - Designed a responsive **React frontend** with dynamic **search/filter functionality**.
  - Created backend APIs using **Node.js & Express**; stored and retrieved data using **MongoDB**.
  - Displayed perfume details in **card layout** with image support and real-time updates.
  - Integrated **Axios** for client-server communication and tested endpoints using **Postman**.
  - Implemented features like **responsive navbar** and optional **dark mode toggle**.
- **Realtime Chat Application** **Feb 2025 – Feb 2025**  
**Node.js | Socket.io | HTML | CSS | JavaScript**
  - Developed a real-time **chat** web application using **Socket.io** for live two-way communication between users.
  - Implemented features like user join/leave notifications, message broadcasting, and audio alerts.
  - Built the backend with **Node.js**, handling multiple client connections and message routing.
  - Gained hands-on experience with websockets, event-driven programming, and client-server architecture.
- **Weather App**
  - Developed a responsive weather app using **HTML**, **CSS**, and **JavaScript**, with **OpenWeatherMap API** integration to fetch real-time weather data.
  - Features include search functionality, dynamic weather display (temperature, humidity, wind speed), error handling for invalid city names, and responsive UI design.
  - Improved skills in **API integration**, **DOM manipulation**, **asynchronous JavaScript**, and **responsive design**.
  - **Technologies:** HTML5, CSS3, JavaScript, OpenWeatherMap API.

➤ **Online Quiz App**

**Tech Stack:** HTML, CSS, JavaScript

- Developed a responsive quiz app with multiple-choice questions and real-time answer validation.
- Highlighted correct/incorrect answers with color feedback and displayed final score after submission.

➤ **Gym Attendance Behavior Prediction using Machine Learning**

**Oct 2024 – Nov 2024**

- **Enhanced prediction accuracy** by developing and training machine learning models (Random Forest and Logistic Regression), achieving **100% accuracy** in distinguishing typical and atypical gym behavior.
- **Improved operational efficiency** by analyzing entry patterns and identifying peak gym hours, helping optimize gym usage and minimize overcrowding.
- **Extracted actionable insights** on visit frequency and session durations, leading to better allocation of resources and potential **gym utilization increase** from **70% to 90%**.
- **Enabled data-driven decision-making** for gym management by visualizing key patterns, including visitor trends and high-demand periods, to enhance scheduling strategies.
- **Reduced potential wait times and maximized gym capacity** through insights into attendance spikes, supporting smoother visitor flow and resource planning.

**Tech Stack:** Python, Pandas, Scikit-Learn, Matplotlib, Random Forest Classifier, Logistic Regression

➤ **Customer Churn Prediction Project (End-to-End Data Science & Deployment)**

- **Description:** Developing an end-to-end machine learning project to predict customer churn based on user data (e.g., Age, Tenure, Monthly Charges), with plans to implement deep learning for further accuracy improvement.

**Key Contributions:**

- **Data Analysis & Preprocessing:** Performed data cleaning, handled missing values, encoded categorical variables, and scaled numerical features.
- **Model Building & Hyperparameter Tuning:** Trained multiple classification models (Logistic Regression, KNN, SVM, Decision Tree, Random Forest) and optimized them using GridSearchCV. Achieved **88.5% accuracy** with SVM.
- **Ongoing Work:** Exploring and implementing deep learning techniques (ANN) to further enhance prediction accuracy.
- **Deployment:** Built and deployed the current model using **Streamlit**, providing a user-friendly interface for real-time churn predictions.
- **Tech Stack:** Python, Pandas, NumPy, Matplotlib, Scikit-learn, Streamlit, Joblib.

➤ **Personal Portfolio Website**

**Tech Stack:** HTML, CSS, JavaScript

- Designed and developed a fully responsive portfolio website to showcase projects, skills, and contact information.
- Implemented smooth navigation and an interactive user interface to enhance user experience.
- Optimized the website for all devices using modern CSS techniques, including Flexbox and Media Queries, ensuring seamless performance across various screen sizes.

## EDUCATION

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**Indian Institute of Information Technology, Design and Manufacturing**

**(IIITDM) Kancheepuram**

B-Tech in Smart Manufacturing.

**Nov.2022-July.2026**

**DDU International School & Narayana College Karnataka**

12<sup>th</sup>-93%

**Aug. 2018 – July. 2022**