

# Abhinav Raj Verma

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## Education

<b>B.M.S College of Engineering,</b> Bachelor of Technology in Artificial Intelligence and Machine Learning	2027
• GPA: 8.8 / 10	
<b>St. Francis' College,</b> Higher Secondary Education (Class XII)	2022
• GPA: 9.1 / 10	
<b>St. Francis' College,</b> Higher Secondary Education (Class X)	2020
• GPA: 8.96 / 10	

## Experience

<b>Shree Gadimai Plastic Udhyog,</b> Web Developer Intern (Freelance Project)	2025
• Developed a full-stack company website to showcase products and services.	
• Integrated interactive UI using HTML, CSS, JavaScript, and Tailwind CSS.	
• Connected contact form to backend using Node.js, Express, and Nodemailer for real-time inquiries.	
• Worked closely with client to understand business needs and provide a scalable solution.	

## Projects

<b>AI-Powered Agriculture Fertilizer Recommendation System,</b> Full Stack Developer	2024
• Built a full-stack web application to recommend fertilizers based on crop, region, season, and temperature using real-world datasets.	
• Implemented dynamic frontend using HTML, CSS, and JavaScript with form validation and user input sanitization.	
• Developed backend using Flask and Python to process requests, perform fuzzy matching (RapidFuzz), and serve context-aware fertilizer advice.	
• Integrated OpenAI GPT model (via API) to handle out-of-dataset or general agricultural queries with intelligent fallback.	
• Used Pandas for data filtering, temperature-based range selection, and deployed a responsive advisory chatbot.	
<b>Breast Cancer Prediction Model,</b> Machine Learning Project	2025
• Built a classification model using Scikit-learn to predict the likelihood of breast cancer from diagnostic data.	
• Performed exploratory data analysis (EDA) to identify key features influencing malignancy.	
• Applied machine learning algorithms such as Logistic Regression, Decision Tree, and Random Forest for comparison.	
• Evaluated models using metrics like accuracy, precision, recall, and confusion matrix.	
• Achieved high accuracy with minimal false positives using proper data preprocessing and cross-validation.	
<b>Smart Career Guidance Platform,</b> Full Stack Developer   AI Career Advisor	2025
• Developed a full-stack AI-based career guidance platform using React, Flask, and MongoDB.	
• Implemented user authentication and personalized dashboards for students to input academic data and interests.	
• Integrated machine learning to suggest career paths based on performance, preferences, and goals.	

- Embedded OpenAI GPT API to answer student career queries and generate skill-learning roadmaps dynamically.
- Designed an admin panel to monitor trends, export user data, and manage platform content.

## Technologies

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- **Languages:** C, C++, Java, Python, JavaScript, SQL, HTML, CSS
- **Frameworks:** React.js, Node.js, TensorFlow
- **Libraries:** NumPy, Pandas, Keras
- **Databases:** NoSQL, MongoDB
- **Developer Tools / Platforms:** Git, AWS
- **Problem Solving:** 150+ problems on LeetCode, active on and GeeksforGeeks