ABHISHEK KUMAR RAM

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Summary

A passionate Full Stack Developer with a strong foundation in web development and machine learning using Python. Skilled in building robust full-stack applications with the MERN stack (MongoDB, Express.js, React.js, Node.js) and Python. Experienced in designing responsive user interfaces, integrating RESTful APIs, and developing efficient, scalable backend systems. Dedicated to crafting seamless, user-friendly web experiences.

Skills

HTML, CSS, JavaScript, MongoDB, Express.js, React.js, Node.js, C, C++, Python, MySQL, Oracle Database, Informatica, WordPress, Arduino programming, prompt engineering, flask, streamlit

Education

University of Engineering & Management | Kolkata,West Bengal
BTECH in Electrical and Electronics Engineering | 05/2019
CGPA- 8.23

CENTRAL MODEL SCHOOL,BARRACKPORE | Kolkata,West Bengal
Higher Secondary | 05/2014
Percentage : 60%

CENTRAL MODEL SCHOOL,BARRACKPORE | Kolkata,West Bengal
Senior Secondary | 05/2011
CGPA - 8.4

Experience

Tata Consultancy Services | Kolkata,West Bengal
System Engineer | 04/2021 - Present

- Provided development and support for an insurance domain application in the US BFSI sector.
- Developed and optimized complex SQL queries using Oracle SQL Developer to extract, transform, and load data.
- Worked on ETL workflows using Informatica for policy data processing and validation.
- Participated in Agile development cycles and collaborated with cross-functional teams for system enhancements.
- Conducted root-cause analysis, bug fixing, and performance tuning to improve application stability.

Projects

E-Commerce Application - MERN

Designed and developed a feature-rich e-commerce web application using the MERN stack, offering a seamless shopping experience. Key features include:

- *Product Catalog*: Displayed products with detailed descriptions, images, and pricing, enabling users to browse and search efficiently.
- *Shopping Cart*: Implemented an interactive cart system for adding, removing, and updating product quantities.
- *User Authentication*: Secured the platform with login, signup, and role-based access control using JWT.
- *Order Management*: Built a comprehensive order tracking system, allowing users to view order history and status.
- *Payment Integration*: Integrated a secure payment gateway for online transactions.
- *Admin Dashboard*: Developed an admin panel for managing products, categories, and orders.

Hotel Booking Application - MERN

Developed a full-stack web application for seamless hotel booking using the MERN stack. The application allows users to search for hotels, check availability, and make bookings with ease. Key features include:

- *Dynamic Search*: Filter hotels based on location, dates, and room type.
- *Booking Management*: Secure booking system with check-in and check-out date validation.
- *User Authentication*: Implemented login and signup functionality using JWT for secure access.
- *Responsive Design*: Ensured compatibility across devices for an optimal user experience.
- *Payment Integration*: Incorporated a payment gateway for hassle-free transactions.

Food Ordering Application - MERN

Developed a dynamic food ordering web application leveraging the MERN stack, providing users with a seamless and intuitive platform to explore, filter, and order food. Key highlights of the project include:

- *Food Filters*: Enabled users to filter meals by type (breakfast, lunch, dinner), category (veg, chicken, mutton), and price range.
- *User Authentication*: Implemented secure login and signup functionality with JWT for personalized experiences.
- *Order Management*: Designed a dedicated order page where users can view their ordered items and track payment status.
- *Payment Gateway*: Integrated a secure payment system to handle online transactions.
- *Responsive Design*: Ensured an optimized experience across desktop, tablet, and mobile devices.

Medical Insurance Cost Prediction

- Developed and deployed an interactive web application using **Streamlit** to predict individual medical insurance costs based on demographic and lifestyle factors.
- Implemented a machine learning pipeline with **XGBoost Regressor**, achieving high prediction accuracy on real-world insurance data.
- Integrated the trained model into a user-friendly Streamlit interface, allowing live predictions with dynamic user input.
- Tools & technologies: **Python**, **XGBoost**, **scikit-learn**, **pandas**, **Streamlit**, **GitHub**, **Streamlit Community Cloud**.

Languages

English, Hindi, Bengali

Awards

Service commitment Award- TCS, GATE 2019,2020 Qualified

Certificates

CRIO - FULLSTACK WEB DEVELOPMENT, NPTEL certication in ANALOG ELECTRONICS, BOEING Aeromodelling competiton at IIT KGP (2016,17)