Deepanshu Chalia

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Education

Southern Methodist University
Master of Science in Computer Engineering

Graduation date: 2022-2024

Punjab Engineering College
Bachelor of Technology in Electrical Engineering

Graduation date: 2017-2021

Work Experience

The Keelworks Foundation
Software Developer Volunteer

Oak Harbor, WA
July 2024 - Present

- Deployed a comprehensive training management application using React, Node.js, Express, and MongoDB to track course completion streamline training processes for Keelworks
- Forged robust connections between front-end and back-end systems to optimize data flow ensuring a superior user experience
- Leveraged NoSQL db to extract and analyze data, creating reports that tracked training program effectiveness and participant progress

J.S. Auto Private Limited
Operations Analyst (Production and Inventory)

New Delhi, India
June 2021 - Aug 2022

- Analyzed weekly sales and inventory data to guide production schedules and ensure timely vehicle deliveries, supporting sales targets and new vehicle launches.
- Tracked real-time sales, orders, and inventory using MongoDB Compass; performed data checks to maintain accurate stock levels for production.
- Provided updates on production and delivery timelines, comparing factory output with customer orders to plan for future vehicle availability.

Projects

Girl Scouts of America: 2023 Cookie Sales Forecasting

- Pioneered SARIMAX time series forecasting models with Python to predict 2023 Girl Scout cookie sales.
- Leveraged historical sales data and socio-economic indicators, such as regional economic conditions and demographic shifts.
- Delivered data-driven strategies to enhance sales across children, parents, and Girl Scouts organizational levels.

Chatbot   https://github.com/Headstarter-fellowship-projects/ai_customer/tree/Deep

- Developed a tailored conversational AI system employing Next.js and OpenAI
- Incorporated user authentication to enhance the user experience and employed Firebase for data storage
- Utilized AWS Bedrock API to enhance the user experience with a diverse range of features, including image generation and code building

Inventory Management   https://github.com/chalia082/Inventory-Management-System

- Created a inventory management application that allows users to keep track of grocery items by adding or removing items and updating their quantities
- Utilized Next.js for the frontend framework, Material UI for the UI components, and Firebase as the backend

Sports League Database   https://github.com/chalia082/Sports-League-Database

- Engineered a web app for sports league management, supporting 500+ scheduled games and real-time updates
- Incorporated Python and Django enhancing operational efficiency by 30%

Skills

Data Analysis & Automation: Excel VBA, SQL, Python, Power BI
Programming: Python, JavaScript, C/C++, TypeScript, React, Node.js, Next.js, HTML/CSS, Flask, Express
Databases & Data Management: MongoDB, MySQL, PostgreSQL, Firebase, Talend
Tools & Technologies: Git, Postman, Vercel, VS Code, Linux
AI & Automation: OpenAI, OpenCV, LangChain, Clerk, Stripe