

Dhruvil Mandaviya

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PROFILE

Dedicated Computer Engineering student with a strong background in software development, cloud technologies, and machine learning. Proficient in optimizing algorithms, database management, and developing predictive models. Eager to apply my technical skills and contribute to innovative solutions.

EDUCATION

Bachelor of Engineering in Computer Engineering

CGPA: 8.40

G H Patel College of Engineering & Technology | Charutar Vidya Mandal University | Gujarat, India

Aug '22 – Jun '26 (Pursing Present)

Coursework: Computer Programming with C and C++, Object Oriented Programming, Data Structures, Database Management System, Digital Fundamental, Computer Organization and Architecture, Operating System, Programming with Java, Python for Data Science, Advanced Java Programming, Computer Network, Web Development, Design and Analysis of Algorithms

EXPERIENCE

Freelance SEO Optimization

May'23 - Feb'24

- Performed SEO audits on WordPress using Google Search Console and Jetpack, fixing issues that improved traffic and rankings.
- Conducted keyword research and optimized meta tags, boosting search engine visibility and driving higher rankings for targeted keywords.
- Implemented extensive backlinking strategies, including outreach and collaboration, to strengthen off-page SEO and significantly enhance search rankings.
- Performed SEO audits on WordPress with Google Search Console and Jetpack, fixing issues to boost traffic and rankings.

Independent Project: GRID BOT PERPETUAL CONTRACT TRADING ANALYSIS IN CRYPTOCURRENCIES

Oct '23 – Dec'23

- Managed various grid trading strategies, including arithmetic and geometric grids, understanding bots' performance in horizontal trends.
- Directed buy and sell orders for commodities based on grid trading strategies, optimizing the execution of trades.
- Analysed horizontal market trends and trading patterns to fine-tune bot performance and maximize returns, resulting in more effective and profitable trading strategies.

PROJECTS

Inflation Prediction Model

Jun '24 – Jul '24

- Developed a predictive model to analyse how bank saving and loan interest rates impact inflation using Python, Jupyter Notebook, Pandas, and Scikit-Learn.
- Analysed historical data to identify trends, leveraging data analysis tools to determine the relationship between interest rates and inflation.
- Built a linear regression model using Scikit-Learn, which led to more reliable inflation forecasts.
- Tested and validated the model with historical data, employing tools for data validation and accuracy assessment.
- Refined variables and optimized processing techniques using cross-validation to eliminate overfitting, enhancing the model's performance and accuracy.

Delivery Routes Optimization

Apr '24 – May '24

- Developed a delivery route optimization system in Java using IntelliJ IDEA and VS Code, applying a greedy algorithm to improve route selection efficiency and planning.
- Represented routes and shops as nodes in a graph, which facilitated effective route mapping and optimization.
- Utilized mapping methods like Dijkstra's and A* algorithms to optimize route planning and efficiency.
- Validated the system with various scenarios, ensuring accurate and effective route solutions, resulting in enhanced overall operational efficiency.

Weather View-Java GUI Weather Indicator

Dec'23 – Jan '24

- Developed a graphical user interface application using Java and IntelliJ IDEA, resulting in an intuitive and visually appealing application.
- Implemented functionality to change the screen background based on weather conditions, enhancing the user experience with dynamic visual updates.
- Integrated static weather data to determine and apply background changes according to different weather conditions.
- Designed a user-friendly interface that displays weather-related background changes clearly and engagingly, ensuring a seamless and interactive experience for users.

SKILLS

- Languages:** Java, Python, JavaScript, C, C++, Dart
- Web Development:** HTML, CSS, PHP, JSP, Servlets, Java web frameworks, J2EE
- Databases:** MySQL, JDBC
- Version Control:** Git, GitHub
- Tools:** VS Code, IntelliJ IDEA, Pandas, NumPy, Scikit-Learn, Apache, Anaconda
- Concepts:** Algorithms, Data Structures, DBMS, OSI Model, Data Science, Project Management, Mobile Development, Computer Networks, Digital Fundamentals, Computer Organization and Architecture
- ML, Cloud & NLP:** Basic knowledge of machine learning, cloud technologies, and Natural Language Processing
- Blockchain:** Basic Understanding and knowledge of NFT, Cryptocurrencies and Blockchain Technology

CERTIFICATION AND COURSES

- Enterprise Data Science Badge:** IBM
- Cloud Badge:** IBM
- Introduction to SQL:** University of Michigan
- Hands-on Introduction to Linux Commands and Shell Scripting:** IBM
- Developing Responsive Web Pages Using HTML5 and CSS3:** NIIT
- Analysis of Algorithm:** Princeton University
- Google Cloud Big Data and Machine Learning Fundamentals:** Google Cloud
- Overview of Advanced Methods of Reinforcement Learning in Finance:** New York University

LEADERSHIP & COORDINATION

- Led a Local Football Team:** Directed a local football team, showcasing leadership and teamwork skills.
- Led Events & Hackathons:** Demonstrated leadership and organizational skills by managing IEEE events and hackathons, driving student engagement in tech projects.
- Spearheaded City-Wide Cyclothon:** Organized a city-wide cyclothon, demonstrating expertise in community involvement and large-scale event planning.