

Soumanil Sarkar

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Education

Dayananda Sagar College of Engineering

Bachelor of Science in Computer Science (Data Science)

Dec. 2022 – Sep 2026

Bengaluru, Karnataka

Relevant Coursework

- Data Analysis
- Machine Learning
- Artificial Intelligence
- NLP
- Product Management
- Database Management
- Computer Vision
- Data Visualization

Experience

Matrix Exports

Nov 2024 – Jan 2025

Business Development Executive

Bengaluru, Karnataka

- **Logistics And Documentation Management:** Managed import and export documentation, ensuring compliance with international trade regulations and smooth customs clearance.
- **Market Research And Business Development:** Conducted market research to identify potential clients and expand the company's global reach, contributing to sales and partnership growth.
- **HR And Recruitment Support:** Assisted in HR functions, including screening candidates, coordinating interviews, and handling employee documentation.
- **Marketing And Client Engagement:** Developed promotional materials and maintained communication with international clients to enhance brand presence and customer relationships.

Projects

Jarvis Desktop Assistant | Python, NLP, API Implementation

Feb 2025

- * Built a desktop assistant using Python to automate tasks such as voice commands, web searches, and system control.
- * Implemented Natural Language Processing (NLP) and speech recognition to enhance user interaction and command execution.
- * Enabled functionalities like opening applications, fetching real-time information, sending emails, and performing basic calculations.
- * Explored additional capabilities such as weather updates, news retrieval, and chatbot-like conversational responses to improve user experience.

Face and Gaze Detector | Python, Computer Vision, OpenCV

March 2025

- * Built a system using OpenCV and deep learning to detect and analyze facial movements and gaze direction.
- * Utilized facial landmark detection and gaze estimation algorithms to track user attention and behavior in real-time.
- * Applied deep learning-based models to enhance accuracy in detecting eye position and facial expressions.
- * Improved processing speed to enable smooth real-time tracking, making it suitable for applications in behavioral analysis and human-computer interaction.

Product Teardown (DrinkPrime) | Market Research, Storytelling, Consumer POV

Dec 2024

- * Analyzed the business model, customer experience, and market positioning of DrinkPrime, a subscription-based water purifier service.
- * Assessed the product's hardware, IoT-enabled tracking, and subscription-based service model to understand its value proposition.
- * Examined user feedback and industry trends to highlight challenges and suggest potential improvements.
- * Compiled research into a detailed teardown, covering competitive analysis, target audience, and potential growth strategies.

Travel Planner Application | Python, Streamlit, SerpAPI, Gemini Flash 2.0

May 2025

- * Developed an AI-powered travel planner web app that generates personalized travel itineraries based on user preferences and queries.
- * Integrated SerpAPI for fetching real-time location details, attractions, and travel-related search results.
- * Used Gemini Flash 2.0 for conversational planning and dynamic itinerary generation, allowing natural language interactions.
- * Built an interactive frontend using Streamlit, enabling users to receive destination suggestions, travel tips, and estimated trip overviews in real time.

Marketing For Credit Card Company | Pandas, Data Cleaning, Autoencoders, PCA, Matplotlib, Seaborn

March 2025

- * Analyzed the market of credit card companies, focusing on data cleaning and handling missing values.
- * Applied Autoencoders and PCA for dimensionality reduction to enhance data analysis.
- * Utilized Pandas for efficient data manipulation and preprocessing.
- * Compiled findings into a comprehensive analysis, providing insights into market trends and data quality improvements.

Technical Skills

Languages: Python, C, HTML/CSS, SQL

Developer Tools: VS Code, PyCharm, Google Colab, Jenkins, Docker, Power BI, MySQL, Jira, Jupyter Notebook, Google Colab, Streamlit, Replit.

Technologies/Frameworks: OpenCV, Matplotlib, Pytorch, Numpy, Pandas, Seaborn, GitHub, WordPress, TensorFlow.

Extracurricular

Music Producer

Spring 2020 – Present

- * Worked with well know Artist in the DHH.
- * Got to know more about sound designing, sampling and engineering.