Soumya Pandey

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PLAKSHA
UNIVERSITY

Education

B.Tech in Data Science, Economics & Business - Plaksha University, Mohali   **CGPA**: 8.27   2027
12th IBDP - S.M.Shetty International, Mumbai   **Grade**: 38/45   2023
10th IGCSE - S.M.Shetty International, Mumbai   **Percentage**: 94.3%   2021

Work Experience

Graphic Design and Machine Learning Intern, Chayan.AI   May 2024 – Jul 2024
- Built a simple chatbot to guide students in creating resumes. Gained hands-on experience in data processing and natural language understanding, applying core Machine Learning concepts.
- Designed and implemented a React.js interface, enhancing user experience (UX) through iterative testing and feedback.
- Created wireframes in Figma to illustrate the web application's layout, streamlining the design-to-development workflow.

Student Tutor, Office of Global Engagements, Plaksha University   March 2025 - Present
- Research global trends, international partnerships, and cultural dynamics to support decision-making within the Office of Global Engagements.
- Assist in the planning, coordinating, and executing international events, seminars, and workshops. This includes logistical support, participant coordination, and ensuring events run smoothly.
- Contribute to developing communication materials, including newsletters, social media posts, and promotional content, to effectively engage internal and external stakeholders.

Learning Associateship, Center for Thinking, Language & Communication, Plaksha University   Sep 2023 – Feb 2024
- Assisted faculty in gathering and analyzing qualitative and quantitative data for ongoing research projects, honing data interpretation and statistical analysis skills.
- Created content and managed social media strategies to promote ongoing initiatives and enhance outreach efforts.

Projects

Balancing Builder Bot │ *e-Yantra, IIT Bombay*   August 2024 - March 2025
- Designed and built a two-wheeled balancing robot equipped with a manipulator arm, aimed at remote-controlled transportation tasks in construction-like settings.
- Implemented Arduino-based control logic, using PID control and LQR logic implemented through C++, ensuring smooth movement and stability over uneven terrains.
- Used Feedforward framework to get input from the sensors and optimise using PID control to understand what to do next.

Electricty Demand Forcasting │ *Dr. Siddharth S*   January 2025 - Present
- Designing and training a Machine Learning model to accurately predict power usage, leveraging time-series data and advanced regression techniques.
- Employed data cleaning and feature engineering to enhance model accuracy, using Python libraries such as NumPy, Pandas, and scikit-learn.
- Coordinated with stakeholders to interpret results, facilitate model deployment, and guide actionable energy-saving strategies.

LocalFinder │ *Dr. Ashutosh R*   Jan 2024 - May 2024
- Built a C++ application to help college students discover nearby places by rating and distance, implementing sorting algorithms using AVL trees.
- Developed multiple search and filter functions (e.g., highest-rated, shortest-distance) for quick and flexible user queries.
- Optimized data structures to ensure efficient lookups and seamless user experience, contributing to practical algorithmic problem-solving.

Line following & Obstacle Detection bot │ *Dr. Shashank T*   August 2024 - December 2024
- Implemented sensor-based navigation (IR sensors) and Arduino code to enable the robot to follow lines and avoid obstacles in real time.
- Integrated feedback loops for autonomous path correction, ensuring accurate and uninterrupted movement on a predefined track.
- Collaborated in hardware assembly, testing, and iterative refinements to improve reliability and performance under varied conditions.

Positions of Responsibility

President, One-O-One (Dance Club)   Aug 2024 – Present
Spearheading club initiatives and strategic direction, coordinating with members to organize events and workshops. Recruited and managed a diverse team, fostering collaboration and conflict resolution. Oversaw budgeting, logistics, and outreach efforts to expand membership and engagement

Core Member, Rangrez (Art Club)   August 2025 – Present
Created visual and written content for campus-wide initiatives, aligning with the organization's brand identity.

Designer, Eklavya (Sports Fest, Plaksha University   November 2024 - February 2025
Core member of the design team, used Figma to conceptualize and produce visual assets. Collaborated closely with event coordinators to ensure timely delivery and consistency across all marketing materials.

Skills

Programming Languages: C, C++, Python, MATLAB, JavaScript, HTML & CSS, SQL, Arduino
Development Frameworks:React, Flutter
Other: Figma, Adobe

Achievements

- **Semi-Finalist**, e-Yantra, IIT Bombay - Got into the **top 50 teams** for Balancing Builder Bot track, out of **200+** teams.