Soumya Malviya
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ACADEMIC DETAILS

Degree	Specialization	Institute	Year	CPI/%
B.Tech.	Electrical Engineering	IIT Gandhinagar	2022-Present	6.52
Class XII	*Physics, Chemistry, Maths*	St. Anne's School, Jodhpur	2020-2021	80.6
Class X		St. Anne's School, Jodhpur	2018-2019	86.4

PROJECTS

- **Personal Portfolio Website** [June '24]
  (Independent Project)
  - Designed and developed a personal portfolio website to showcase projects, skills, and experiences.
  - Utilized HTML, CSS, and JavaScript for a visually appealing, fully responsive site.
  - Implemented interactive features and animations to enhance user engagement.
  - Ensured cross-browser compatibility and optimization for various devices.
  - **Tools used**: HTML, CSS, JavaScript, Git, GitHub.

- **MERN Stack Hospital Management System** [June '24 - Ongoing]
  (Independent Project)
  - Developed a hospital management system using MongoDB, Express.js, React, and Node.js.
  - Created tutorials for backend setup, database integration, API development, and frontend design.
  - Implemented patient registration, appointment scheduling, and admin dashboards.
  - **Key Responsibilities:**
    * Backend: Configured Node.js and Express.js; integrated MongoDB.
    * Frontend: Designed a responsive interface with React.
    * Security: Implemented authentication, authorization, and data security.
    * Tutorials: Produced detailed documentation for learning and replication.
  - **Technologies Used:** MongoDB, Express.js, React, Node.js, HTML, CSS, JavaScript, RESTful APIs, Git, GitHub.

- **Fall Detection System for closed spaces** [May '23 - July '23]
  (Prof. Udit Bhatia, IIT Gandhinagar)
  - Worked with a team of 30 members to develop a prototype that solves an engineering-cum-societal problem within the budget of 15k.
  - Developed a robust Fall Detection System for enclosed spaces, integrating piezoelectric sensors, IR sensors, and Arduino UNO, prioritizing the safety of both children and elderly individuals.
  - **Tools used** : Piezoelectric sensors, IR Sensors, Arduino UNO.

- **Hydraulic Floor Jack** [May '23 - July '23]
  (Prof. Jayaprakash K.R., IIT Gandhinagar) | Project Link
  - Designed and 3-D modelled a hydraulic floor jack using Autodesk Inventor Professional
  - Created orthographic projections of all the parts and assembled the parts and created a simulation showing the smooth working of the model

TECHNICAL SKILLS

- **Programming Languages:** C, C++, HTML, CSS, JavaScript, Node.js, Express.js, Python, Machine Learning (Basics), Web development, Verilog
- **Tools:** Autodesk Inventor Professional, Matlab, Arduino IDE, Google Colab, Git, Vivado
- **Library:** NumPy, Pandas, Matplotlib, SciPy, Scikit-Learn

RELEVANT COURSES

- Data Structures and Algorithms - I, Digital Systems, Probability, Statistics, and Data Visualization, Data-Centric Computing,

POSITIONS OF RESPONSIBILITY

- **Senior Public Relations Executive, Blithchron '24** (Annual Cultural fest, IITGN) [May '23 - March '24]
  - Ideated, developed budget and managed logistics while coordinating with volunteers, administration and sponsors.
  - Leveraged networking skills to expand event reach and delivered Gujarat's largest student-run cultural festival.

- **Council Member, Cultural Council, IIT Gandhinagar** [May '23 - March'24]
  - Coordinate and enhance various cultural activities and initiatives, including events, performances, and cultural exchanges, to enrich student life and foster a vibrant cultural community.

EXTRA-CURRICULAR ACTIVITIES

- The complete python Bootcamp by Udemy.

- Supervised Machine Learning: Regression and Classification by Coursera