Sneha Gautam

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Github: https://github.com/SG00428

Education

B.Tech. in Computer Science and Engineering, IIT Gandhinagar (2022-Present), CPI: 6.82
Class XII: Physics, Chemistry, Maths, S.D. Global School, Ghaziabad (2021-2022), Marks: 96.8%
Class X: S.D. Global School, Ghaziabad (2019-2020), Marks: 96.8%

Technical Skills

Programming Languages: C, C++, Python, Verilog
Tools: Autodesk Inventor, Matlab, Arduino IDE, Google Colab, Git, Vivado
Libraries: NumPy, Pandas, Seaborn, Matplotlib, SciPy, Scikit-Learn, PyTorch, TensorBoard

Experience

Machine Learning Intern | Orinson Technologies Pvt. Ltd. (Sep '24 - Oct '24)

* **Applied ML techniques for data preprocessing, model evaluation, and optimization.**
* **Built a web app using Flask for predictions.**

STEM Intern | SoulAI (Dec '24 - Present)

* **Focused on Reinforcement Learning with Human Feedback to optimize AI model.**
* **Contributed to various tasks related to AI model optimization and fine-tuning.**

Projects

Machine Learning Projects Hub, IIT Gandhinagar (Jan '24 - April '24)

* **Below are the some tasks performed utilizing various Machine Learning algorithms.**
* **Human Activity Recognition, Image Reconstruction, rudimentary Next Character Predictor.**

Automated Verilog Code Generator, IIT Gandhinagar (Jan '24 - April '24)

* **Designed and developed a python based website taking user input as number of bits and type of multiplier or adder.**
* **Rolling out the intended output as verilog code.**

Machine Learning Pipelines with Azure ML Studio (Aug '24)

* **Built ML pipelines to predict income based on age, education, occupation, etc.**
* **Used Azure ML Studio to streamline the process and improve model deployment.**

Algorithmic Game Solvers in C/C++ (Aug '23 - nov '23)

* **Developed solvers for classic algorithmic games like Tic-Tac-Toe, Up-it-Up, 2*2 Rubik's Cube, Sim, Connect4.**
* **Implemented advanced graph based algorithms and heuristics search algorithms.**

Natural Language Processing (Aug '24 - Nov '24)

* **Web-scraped 15 GB of Urdu text data, cleaned data by removing inappropriate words, and deduplicated the dataset.**
* **Tokenized the dataset using various tokenizer and selected the best absed on fertility score.**
* **Trained the AI models on the dataset and generated response from the prompts**