

Abhinandan Saini

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Professional Summary

Motivated and curiosity driven individual with an academic background in Information Engineering. Always keen to learn and understand cutting-edge technology. Eager to apply my skills in a real-world working environment to grow as an IT Professional, while gaining hands-on experience and mentorship to find practical solutions.

Education

Bachelor's Degree in Information Engineering

Oct 2021 – Present

Università degli Studi di Padova – Padova, Italy

Key Coursework: Internet and Security, Data Structures & Algorithms, Electric Circuits, Machine Learning, Telecommunications, Operating Systems

Projects

Multimodal AI Integration

Sep 2024 – Dec 2024

- Developed a local hosting solution for multimodal AI using Llava(for Vision) and Llama 3 models.
- Used Docker to manage embeddings and handle local database operations.
- Demonstrated secure local deployment of AI models without cloud services.

Vertical Cart-Pendulum

Apr 2024 – Jun 2024

- Designed and simulated a vertical cart-pendulum system using MATLAB and Simulink to analyze dynamic behavior and control strategies.
- Implemented PID controllers to stabilize the pendulum in the upright position and validated system performance through simulations.

Prepaid Credit Card Management System

Jan 2024 – Mar 2024

- Built a C language-based system to manage prepaid credit card accounts.
- Implemented file handling, linked lists, and efficient sorting algorithms.

Market Basket Analysis

Oct 2022 – Jan 2023

- Developed a Java-based system from scratch without external libraries to analyze purchasing patterns.
- Tested on a dataset of approximately 300,000 entries to derive frequent item combinations.

Technical Skills

- **Programming Languages:** Java, Python, C
- **Concepts:** Data Structures & Algorithms, Machine Learning, Networking Basics (TCP, UDP, IP, ARP)
- **Tools & Technologies:** Git (basic), Docker, MATLAB, Visual Studio Code
- **Operating Systems:** Linux(basic)
- **Miscellaneous:** Report writing, Microsoft Office (Word, Excel, PowerPoint, Outlook)