ADITYA SHARMA

Pre-Final Year

Department of Mechanical Engineering

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SUMMARY

A skilled student with expertise in deep learning, machine learning, computer vision, language processing, and game-development proficient in Python, C++, PHP, HTML, JavaScript, etc, Demonstrates excellent problem-solving skills, strong research capabilities and is actively seeking roles in software development, full-stack development, and web development.

ACADEMIC QUALIFICATIONS

Year	Degree/Certificate	Institute
2022 - Present	B.Tech in Mechanical Engineering	Netaji Subhas University Of Technology, Delhi
2022	Class (CBSE)	Ahlcon International School, New Delhi
2020	Class (CBSE)	Ahlcon International School, New Delhi

TECHNICAL SKILLS

- **Proficient**: C/C++ **Exposure**: python, javascript, HTML, PHP, CSS, C
- **Frameworks**: Bootstrap, Jquery, NodeJS, Django, EJS, Discord.py, Matplotlib, OpenCV, PyTorch
- **Utilities**: MySQL, MongoDB, Bash, Git, Jupyter Notebook, AutoCAD, Blender, OpenPose, Colab

PROJECTS

ConnectifyPlus — Social Media platform — 　　　　　　　　　　　　　　　　　　　　　　　　　　 *Jun'24-Jul'24*
- Developed a **web page** where users can sign up, log in, post, like, comment, and interact with other users; managed user sessions with PHP to maintain secure login states and personalized user experiences
- Utilized **MYSQL** for efficient back-end database management, including user data storage, retrieval, and relationships
- Deployed the project on a local server using XAMPP for testing and development, preparing for future scalability on cloud platforms

Intrusion Detection System — Cybersecurity — 　　　　　　　　　　　　　　　　　　　　　　　　　　 *Jun'24*
- Utilized the **NSL-KDD** dataset for network intrusion detection, performing data cleaning, normalization, and feature selection to enhance model accuracy
- Developed and implemented machine learning models using **Random Forest** and **SVM** algorithms to classify network intrusions
- Leveraged Python and Jupyter Notebooks for coding and analysis, employing libraries like scikit-learn, pandas, and numpy for efficient model development and data manipulation

E-Commerce Website — Full-Stack Project — | ▲Vercel 　　　　　　　　　　　　　　　　　　　　　 *Jul'24*
- The project is a fully functional e-commerce application built using a combination of modern technologies including **Vite**, Headless UI, **React JS**, **Redux**, **Firebase** and **Tailwind CSS**. State management is efficiently handled using Redux, which contributes to the modular and scalable nature of the codebase.
- It offers a variety of features such as user authentication (signup/login) with Firebase, comprehensive product listings with detailed views, a shopping cart functionality, and order management through the designated admin account

Mario — Unity/pygame — 　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　 *Aug'24*
- Developed a 2D Mario-style platformer game using **Python** and **Pygame** , showcasing creativity and programming skills
- Implemented smooth character movement, jumping mechanics, and gravity to create a responsive game-play experience
- Collision Detection: Integrated efficient collision detection for character interaction with platforms, enemies, and collectibles, due to the unavailability of deployment options for pygame used unity

EXPERIENCE

Research | Instrumentation Department, NSUT 　　　　　　　　　　　　　　　　　　　　　 *Feb'24 - Present*
- Research on wind speed metrics, developing prediction models using deep learning and machine learning techniques, including LSTM, BiLSTM and CNN-BiLSTM model, Calculating error in the actual/predicted using: MAE, RMSE, R^2, sent for conference publication (21st Aug), accepted (24th Sept) and presentation in December'24.

RELEVANT CERTIFICATIONS

Python for Data Science, Problem Solving - Intermediate, Introduction to Modern Database Systems
Introduction to Career Skills in Software Development, Career Skills in Data Analytics, Project Management Foundations
Business Analysis Foundations: Business Process Modeling, etc — in

Extra-Curricular Activities

- Secured 3rd position in a hackathon organised by CredFlow on real life problems which can be solved by the real life application of Ml-Ai -(06/07/24) in
- Participated in the yearly inter-branch winter sports badminton tournament and secured top-5 position.