Aman Kumar

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EDUCATION

Punjab Engineering College, Chandigarh   Chandigarh, India
Bachelor of Technology - Electronics & Communication Engineering;   Nov 2022 - June 2026
Kendriya Vidyalaya, sector 31 'd' Chandigarh   Chandigarh, India

TECHNICAL SKILLS

Programming Language : Python(proficient),C++

Web Technologies : HTML,CSS,JavaScript,React.js, Node.js, Express.js

Database and Cloud : MySql,PostgreSQL,Google Cloud

Libraries : Numpy, Pandas, Matplotlib, TensorFlow, Keras

Developer Tools : Git/Github,VS Code,Pycharm, Windows, Sublime Text

PROJECTS

Yoga Pose Detector — TensorFlow, Keras, Numpy, Panda, Matlplotlib
- Developed a yoga pose classification model using Keras and TensorFlow for high accuracy.
- Leveraged CNNs with pre-trained architectures for precise pose recognition of six yoga poses.
- Enhanced model robustness with sophisticated data preprocessing and augmentation techniques.
- Conducted comprehensive fine-tuning and performance evaluation using rigorous metrics, resulting in improved accuracy and reliability.

Online Food Delivery System — HTML, CSS, JavaScript, MySQL
- Developed a responsive and user-friendly web application for ordering food online.
- Designed the front-end interface using HTML, CSS, and JavaScript to provide an engaging user experience.
- Enhanced search functionality to allow users to quickly find and order their desired food items.

Expense Tracker Website — HTML, CSS, JavaScript, Node.js, Express.js, PostgreSQL
- Developed a web application for tracking personal expenses and managing budgets.
- Integrated PostgreSQL to store and retrieve user data, including expense records and budget details.
- Implemented real-time data updates and visualizations to help users monitor their spending habits.

POSITION OF RESPONSIBILITY

PEC ACM CSS | Implementation Body Member
- **Problem Setter** for Code Sprint 2024 , **100+**participants
- Successfully Coordinated **3+** events on various topics.
- Secured sponsorships increasing **event budget by 30%** for PECFEST flagship events.
- Conducted web development and machine learning workshops for **100+ junior students**

Rotoract Club | Member
- Organized an **Old Age Home Visit**, providing companionship and support to the elderly.
- Conducted **Teaching Sessions** for underprivileged students, improving their academic skills.
- Coordinated a visit to a **Dog Shelter**, promoting animal welfare and community involvement.

COURSEWORK

Undergraduate : Data Structures, Analysis & Design Of Algorithms, Machine Learning, Probability & Statistics.

MOOC's : Object oriented programming, SIEMENS NX CAD Modeling, AutoCAD Modeling & Manufacturing.

ACHIEVEMENTS

- Solved **150+** Data Structures and Algorithms problems.
- Participated in the **Smart India Hackathon**.
- Completed the **Google Cloud Computing Jams**.
- Commended for participation in the **E-Summit 24** Hackathon.