Pushap Raina

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Education

Sardar Patel Institute of Technology **2022 – Present**
Bachelor of technology in Computer Science , CGPA: 7.20 *Mumbai, India*

World Model Higher Secondary School, Rajpura **2021 – 2022**
HSC Percentage: 97.4% *Jammu, India*

World Model Higher Secondary School, Rajpura **2019 – 2020**
SSC Percentage: 93% *Jammu, India*

Relevant Coursework

- Database Management System
- Data Structures
- Object Oriented Programming
- Operating Systems

Projects

InfinityPlay | *React, Node.js, Express, JWT, Rest APIs, MongoDB* Repo | Live

Game Hosting Platform: Architected a platform to host legacy Flash games with the help of Ruffle emulator for seamless browser execution.

Optimized File Management: Utilized MongoDB GridFS for efficient storage and retrieval of large game files, integrated JWT-based secure admin dashboard for content moderation.

Semantic Search Optimization: Integrated NLP-powered search using Sentence Transformers to deliver intent-aware game recommendations based on cosine similarity of query and game metadata embeddings.

ShareKare | *Django, HTML, CSS, SQLite, Leaflet Maps* Repo

Donation and Redistribution Platform: Built a community-driven web app enabling users to donate items, NGOs to request resources, and track donation histories efficiently.

Interactive Features: Integrated Maps API for geolocation-based donation spots, calendar invites for campaigns, and real-time in-site notifications to boost user engagement.

Robust Backend & Admin Panel: Leveraged Django's authentication system with role-based access; used admin interface for donation moderation and user activity monitoring.

Customer Segmentation and Recommendation System | Repo

Data Preparation and Feature Engineering: Cleaned and preprocessed a real-world mall customer dataset from Kaggle; focused on features like Annual Income and Spending Score to extract behavioral patterns.

Customer Segmentation: Implemented KMeans clustering; used Within-Cluster Sum of Squares (WCSS) and Elbow Method to identify optimal number of clusters. Segmented customers into 5 distinct profiles

Recommendation System: Designed a rule-based product recommendation engine using cluster assignments; new customers are assigned to a cluster and recommended products popular within that segment.

Technical Skills

Languages/Databases: C++, JavaScript, HTML, SQL, MongoDB

Frameworks & Libraries: React, Node.js, Express, Material UI, TailwindCSS, Bootstrap

Tools & Platforms: Git, GitHub, Figma ,Postman , Thunder Client, Docker

Experiences

- **Event Head, ACSES** | *CSE Dept. Committee*: Led a team of 10+ coordinators to organize online workshops on Java and Machine Learning; managed scheduling, speaker coordination, content flow, and promotions.
- **Mentor, Abhyudaya-SPJIMR**: Guided students (Grades 7–10) in academics/life skills; tracked progress of underprivileged learners.