

Arnav Agrawal

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SUMMARY

Computer Engineering student with hands-on experience building full-stack web platforms, RESTful APIs, and recommendation systems. Proven skills in Python, Django, React, and PostgreSQL with a track record of deploying production-grade applications. Certified in Data Analytics and Project Management by Google. Passionate about developing scalable, user-focused solutions with strong foundations in software development and data-driven decision-making.

EDUCATION

Thapar Institute of Engineering and Technology

Bachelor of Engineering in Computer Engineering

Patiala, Punjab

Aug 2023 – May 2027

St. Xavier's Sr. Sec. School

Senior Secondary with PCM

Jaipur, Rajasthan

Mar 2010 – July 2022

PROJECTS

CollegeChayan | *Python, Django REST Framework, Next.js, TypeScript, JavaScript, React, Tailwind CSS, PostgreSQL*

- Developed CollegeChayan.com, a full-stack web platform for personalized college counseling, helping JEE aspirants discover optimal institutes based on rank, fees, and distance.
- Engineered a robust backend using Django and Django REST Framework, processing 10,000 plus college records
- Built a modern, responsive frontend with Next.js and Tailwind CSS, achieving sub 200ms page load times and seamless user experience
- Automated data import and geospatial calculations using pandas and geopy, enabling dynamic filtering by city, branch, and budget
- Deployed the application on a VPS (Ubuntu) using Gunicorn and Nginx for production-grade performance, managing infrastructure via SSH and PowerShell
- Integrated Google Analytics for user tracking and insights, and implemented CORS for secure cross-origin API access
- Configured the custom domain collegechayan.com, handling DNS and SSL setup for secure, branded access
- Utilized Git, GitHub, and VS Code for collaborative development and CI/CD workflows

CineRec : Movie Recommendation System | *Python*

- Developed CineRec, a content-based movie recommendation system using Python and Streamlit
- Designed an interactive web interface with Streamlit allowing users to select up to 4 favorite movies and receive personalized recommendations
- Utilized pandas and NumPy for data preprocessing and feature engineering on a movie dataset
- Implemented movie similarity calculations using cosine similarity from scikit-learn to recommend titles based on user-selected preferences
- Enhanced user experience by displaying movie overviews and dynamically updating recommendations in real time
- Demonstrated proficiency in data science libraries and rapid prototyping of machine learning applications

TECHNICAL SKILLS

Languages: C/C++, Python, SQL (Postgres), TypeScript, JavaScript, HTML/CSS, R, MATLAB

Frameworks: Django, Django REST Framework, Next.js, React, Tailwind CSS, Node.js

Developer Tools: Git, GitHub, Visual Studio Code, SSH, PowerShell, npm, pip, Vercel, Nginx, Gunicorn, MS Excel

Libraries: pandas, NumPy, Matplotlib, openpyxl, geopy, streamlit

CERTIFICATIONS

Google Data Analytics

[View Certificate](#)

Issued: June 2024

Google Project Management

[View Certificate](#)

Issued: August 2024