SHIVANSH SRIVASTAV

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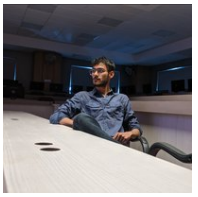

BRIEF SUMMARY

As a 3rd-year computer science student, I possess a strong foundation in programming languages such as Java, C++, C, Python, and JavaScript. Throughout my coursework, I've completed projects spanning web development and machine learning.

In Java, I've mastered object-oriented programming and developed projects ranging from basic applications to complex systems. Similarly, in C++ and C, I've delved into systems programming and low-level optimizations.

Python serves as my tool for data analysis, scripting, and automation, leveraging libraries like NumPy and Pandas. I've also created dynamic websites using HTML, CSS, and JavaScript, alongside frameworks like React.js and Node.js. Additionally, I've ventured into backend development with Django, leveraging its rich feature set to create secure and efficient web applications.

KEY EXPERTISE

Java | C++ | C | Python | Tailwind CSS | MERN/MEAN Stack | Django | Next.js | Prisma | PostgreSQL | Git | Machine Learning | Full Stack Web Development | Data Analysis | Project Management | Team Collaboration | Problem Solving

EDUCATION

MIT ADT - School of Engineering 2021 - 2025
B.Tech. - CSE - Artificial Intelligence and Analytics - MIT ADT - School of Engineering | CGPA: **7.84** / **10**

St. Patrick's Sr. Sec. School, Jaunpur 2020
12th | CBSE | Percentage: **80** / **100**

St. Patrick's Sr. Sec. School, Jaunpur 2018
10th | CBSE | Percentage: **89** / **100**

PROJECTS

My Personal Portfolio

Key Skills: Web Development | HTML | CSS | JavaScript | Bootstrap

Project Link: https://shv14.github.io/myportfolio.github.io/

Created a personal portfolio website showcasing skills, projects, and contact information using HTML for structure, CSS for styling, and JavaScript for interactivity. Designed a responsive layout to ensure optimal viewing across devices, providing visitors with an engaging and informative experience.

Notes Web Application

Key Skills: MERN | Mongodb | Express.js | React.js | Node.js | JWT Authentication

Project Link: https://mern-notes-application.netlify.app

Developed a notes web application using the MERN (MongoDB, Express.js, React.js, Node.js) stack, implementing JWT (JSON Web Token) authentication for secure user authentication and authorization. Enabled users to create, read, update, and delete notes, with data stored in a MongoDB database. Implemented features for user registration, login, and logout, ensuring data privacy and security.

Weather Application

Key Skills: HTML | CSS | JavaScript | Fetch API

Project Link: https://shv14.github.io/weather.github.io/

Built a weather application using HTML, CSS, and JavaScript to fetch weather data from an API and display it to users. Designed an intuitive user interface allowing users to input location information and view current weather conditions, including temperature, humidity, and wind speed, providing valuable weather insights at a glance.

Coffee Shop Website

Key Skills: HTML CSS JavaScript

Project Link: https://shv14.github.io/coffee-shop/

Crafted a Coffee Shop website using HTML, CSS, and JavaScript to showcase a fictional coffee shop's menu, services, and location. Designed an attractive and visually appealing layout with responsive design elements for optimal viewing on different devices. Implemented features such as menu navigation, contact information, and social media integration to enhance the user experience and encourage customer engagement.

Random-Products Website

Key Skills: HTML CSS JavaScript Bootstrap React.js Fetch API

Project Link: https://shv14.github.io/api-cards-react/

Developed the Random-Products website using React.js and integrated with an external API to display random product information to users. Designed a minimalist and intuitive user interface allowing users to browse through a selection of products, view details, and explore product categories. Implemented dynamic data fetching to ensure up-to-date product listings and information.

Random Revolve Website

Key Skills: Mongodb Express.js React.js Node.js JWT Fetch API

Project Link: https://mern-randomrevolve-app.netlify.app/

Created the RandomRevolve website using the MERN stack and Fetch API to display random posts or content to users. Leveraged MongoDB for data storage, Express.js for backend routing, React.js for frontend rendering, and Node.js for server-side logic. Implemented features to retrieve random posts from a database or external API, providing users with fresh and engaging content on each visit.

Nexus Node Website

Key Skills: HTML CSS JavaScript Django Python Bootstrap Restful API Django Rest Framework

Project Link: http://dibneyralph.pythonanywhere.com/

Developed the NexusNode website using Django for backend functionality, HTML and CSS for frontend design, and Bootstrap for responsive styling. Designed an aesthetically pleasing and user-friendly website showcasing information about NexusNode's products or services. Implemented features such as navigation menus, product showcases, and contact forms to enhance user engagement and interaction.

Room Creation: Users can create their own rooms based on specific topics, interests, or communities. Each room serves as a dedicated space for discussions and interactions related to its theme.

Discussion Threads: Within each room, users can initiate discussion threads on different topics or posts related to the room's theme. Threads allow for structured conversations and facilitate engagement among users.

Voting and Comments: Users can upvote or downvote posts and comments, helping to surface the most relevant and interesting content within the community. They can also leave comments to contribute to ongoing discussions or provide feedback.

User Profiles: NexusNode provides user profiles where users can customize their preferences, view their activity history, and manage their contributions to various rooms and discussions.

Moderation Tools: Room creators and moderators have access to moderation tools to manage the content and ensure that discussions remain civil and on-topic. They can remove inappropriate posts, ban users, and enforce community guidelines to maintain a positive environment.

Instagram Spam Detection

Key Skills:

Machine Learning HTML CSS JavaScript Instagram Learning Spam-detection Model Training Data Collection Kaggle

The Instagram Spam Detection project aimed to develop a machine learning model capable of identifying and flagging spam content on the Instagram platform. Leveraging techniques such as natural language processing (NLP) and text classification, the model analyzed user-generated content (posts, comments, messages) to distinguish between legitimate interactions and spammy behavior.

Key features of the Instagram Spam Detection project include:

Data Collection and Labeling: Gathered a diverse dataset comprising both genuine and spammy content from Instagram, meticulously labeled by category (spam vs. non-spam) for supervised learning.

Feature Engineering: Extracted relevant features from textual data, including word frequency, sentiment analysis, and linguistic patterns, to train the machine learning model.

Model Training and Evaluation: Utilized various classification algorithms such as logistic regression, support vector machines (SVM), or neural networks to train the spam detection model. Evaluated model performance using metrics like accuracy, precision, recall, and F1-score to ensure robustness and effectiveness in real-world scenarios.

Deployment and Integration: Integrated the trained model into the Instagram platform to automatically detect and filter out spam content, enhancing user experience and mitigating the impact of spam on user engagement and satisfaction.

The Instagram Spam Detection project represents a proactive approach to maintaining a clean and safe online environment, protecting users from unwanted solicitations and fraudulent activities while fostering genuine interactions and community engagement on the platform.

Movie Recommendation System

Key Skills: Machine Learning | Data Collection | Data Visualization | Data Modeling | Kaggle | EDA

The Movie Recommendation System project aimed to develop a personalized recommendation engine capable of suggesting movies to users based on their preferences, viewing history, and demographic information. Leveraging collaborative filtering techniques and recommendation algorithms, the system analyzed user behavior and movie metadata to generate tailored recommendations.

Key features of the Movie Recommendation System project include:

Data Acquisition and Preprocessing: Collected a comprehensive dataset comprising user ratings, movie metadata, and user demographic information from sources like IMDb or MovieLens. Cleaned and preprocessed the data to remove noise, handle missing values, and ensure consistency.

Model Development: Implemented collaborative filtering algorithms such as user-based or item-based collaborative filtering, matrix factorization techniques like Singular Value Decomposition (SVD) or Alternating Least Squares (ALS), or more advanced methods like neural collaborative filtering (NCF).

Evaluation and Validation: Evaluated the recommendation system's performance using metrics such as precision, recall, and mean average precision (MAP). Conducted A/B testing or cross-validation to validate the effectiveness and relevance of the recommendations provided to users.

User Interface Integration: Integrated the recommendation engine into a user-friendly interface, allowing users to discover new movies, explore personalized recommendations, and provide feedback to improve the system's accuracy and relevance over time.

ASSESSMENTS / CERTIFICATIONS

Exploratory Data Analysis for Machine Learning

Key Skills: Problem-Solving | Data Analysis | Machine Learning

Completed a comprehensive Coursera certification on Exploratory Data Analysis for Machine Learning, enhancing proficiency in extracting insights from datasets to inform machine learning models. Demonstrated competence in exploratory data analysis techniques, including data cleaning, visualization, and statistical analysis. Developed the ability to identify patterns, trends, and outliers in data, enabling informed decision-making for predictive modeling and problem-solving. Applied learned concepts to real-world datasets, gaining practical experience in preparing data for machine learning algorithms and evaluating model performance. This certification solidified foundational knowledge in data analysis and reinforced the importance of rigorous exploratory analysis in the machine learning workflow.

Foundations: Data Data Everywhere

Key Skills: Analyze Data | Decision-making | Data Visualization

Successfully completed the Coursera course 'Data Data Everywhere' provided by Google, focusing on the fundamentals of data analysis and visualization. Acquired a comprehensive understanding of data-driven decision-making processes and techniques for extracting meaningful insights from diverse datasets. Explored various data analysis tools and platforms, including Google Sheets and Google Data Studio, to manipulate, analyze, and visualize data effectively. Developed proficiency in creating interactive dashboards and reports to communicate findings and trends visually. This course equipped me with essential skills for harnessing the power of data to drive informed business decisions and solve complex problems across different domains.

Transforming Data in R

Key Skills: tidyr | dplyr | R Programming

Completed the Coursera course 'Transforming Data in R,' which provided an in-depth exploration of data manipulation and transformation techniques using the R programming language. Developed proficiency in leveraging R's powerful libraries, such as dplyr and tidyr, to efficiently clean, reshape, and aggregate datasets. Mastered the art of data wrangling, including handling missing values, filtering observations, and creating new variables. Acquired hands-on experience in transforming messy, raw data into tidy, analysis-ready formats, laying a solid foundation for advanced data analysis and modeling tasks. This course empowered me with essential skills to preprocess and prepare data for further exploration and analysis, unlocking insights and driving data-driven decision-making.

PERSONAL INTERESTS / HOBBIES

- Basketball, Music, Video Games

WEB LINKS

- Github - https://github.com/shv14

PERSONAL DETAILS

Gender: Male
Marital Status: Single
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