

# ANUSHKA BHAKARE

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## INTERNSHIP

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Web Development Intern, Raise Digital — HTML, CSS, Bootstrap, JavaScript Nov 2024 - Jan 2025

- Developed a responsive and interactive Single Page Application (SPA) landing page using JavaScript and Bootstrap, with a focus on dynamic content rendering and client-side routing to ensure a seamless user experience. Used **AJAX** to load content **asynchronously** and ensure smooth transitions without full-page reloads, optimizing performance and user engagement.
- Built a Habit Tracking Web Application with **persistent local storage**, implementing **CRUD** operations using JavaScript. Integrated **local storage** for persistent state, enabling habits to be saved across sessions. Implemented real-time updates via **DOM manipulation** to reflect changes instantly, showcasing expertise in front-end development, state management, and ensuring a fluid, interactive user experience.
- Developed a responsive currency converter using **jQuery** and **Bootstrap** to integrate with an external **REST API** for real-time exchange rates and on-the-fly calculations. Implemented error handling for API failures and invalid inputs, ensuring stability. Added keyboard support for efficient, fast conversions.

## PROJECTS

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3D Interactive Solar System Simulation [url] - Javascript, Three.js, Vite, WebGL, ES6, CSS

- Developed a visually immersive 3D solar system using **Three.js** and **WebGL**, with accurate orbital mechanics and realistic rendering. The simulation leverages NASA textures for the planets and utilizes dynamic lighting and atmospheric effects to enhance realism.
- Optimized **3D graphics** performance with techniques such as **adaptive rendering** quality, hardware acceleration, and pixel ratio limiting, ensuring smooth framerates across a wide range of devices and performance capabilities.
- Designed an intuitive control system with real-time speed adjustments for individual planets, alongside global animation controls. Integrated **OrbitControls** for smooth 3D navigation and implemented a responsive, interactive user interface using custom CSS animations and **glassmorphism effects** for an aesthetically modern look.

Trendalyzer: Crypto News Aggregator & Sentiment Analysis [url] - Django, JS, Bootstrap, Jina, Ollama

- Developed a **full-stack** web application that aggregates real-time cryptocurrency news, analyzes market sentiment, and generates summarized insights to assess market trends and identify potential investment signals. The frontend was designed using **Bootstrap**, ensuring a responsive, user-friendly interface that displays real-time data on top-performing tokens and sentiment scores.
- On the backend, the application leverages **Django** for server-side logic, efficiently handling data processing, API integration, and user interactions. Data is stored in a lightweight **SQLite** database, enabling fast queries and optimizing storage for the application's needs.
- The application utilizes **Jina DeepSearch** for context-driven sentiment analysis and text summarization, while the local **Mistral 7B** model runs in **Ollama**, ensuring efficient and accurate language processing for generating insights and ranking market news.

Comet Chat [url] - React.js, Vite, Tailwind CSS, HTML, Netlify

- Designed and developed a responsive concept UI for CometChat's Partner Program using **React**, **Vite**, and **Tailwind CSS**, optimized for desktop, tablet, and mobile.
- Designed a modern UI with partner form, logo carousel, collapsible FAQs, and dark theme to improve engagement and consistency.
- Developed a component-based architecture with reusable React components for scalability.
- Optimized workflow with **Vite**, integrated **Material-UI**, enforced ESLint standards, and deployed via Netlify for reliable delivery.

**Emoji Mash** - *React.js, Node.js, Tailwind CSS, FFmpeg, Google Cloud Platform*

- Built a web app using the **MERN** stack that allows users to create custom emoji mashup stickers for WhatsApp. The **React.js** frontend enables users to easily combine two emojis into shareable stickers with a simple and intuitive interface.
- Utilized **Node.js** for backend logic and **FFmpeg** for processing images into **WebP** format, ensuring compatibility with WhatsApp. The images are then packaged into **.wastickers** files for easy import into WhatsApp.
- Deployed the web app on **Google Cloud**, using **App Engine** and **Compute Engine**.

**WhiskerBot** - *Node.js, Baileys, WebSockets, QR Auth*

- Developed a WhatsApp userbot using **Baileys**, enabling automated responses and real-time messaging services through WhatsApp Web.
- Implemented a **command-driven system** (!news, !meme, !pic) with event-based message handling and **QR authentication**.
- Integrated **REST APIs** (NewsAPI, Meme API, Unsplash) to provide on-demand services like news updates, memes, and images.
- Applied **WebSockets** and event-driven architecture for reliable, real-time communication and persistent multi-session support.

**DeFi Credit Scoring** - *Python, scikit-learn, AAVE Protocol*

- Uses historical transaction data gathered from **AAVE Protocol** to predict wallet liquidation risk, by applying supervised learning with a **Random Forest** classifier to generate credit scores for wallet addresses.
- Extracts transaction volume, behavioral, and temporal wallet features, and balances class labels using **SMOTE** to address minority class (liquidated wallets).
- Provides a **command-line tool** for training and prediction, enabling one-step scoring from JSON input; outputs credit scores and risk probabilities for each wallet address.

**SKILLS & CERTIFICATIONS**

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**Front-End Development:** HTML5, CSS3, JavaScript, React.js, Three.js, Bootstrap, Tailwind CSS, jQuery  
**Back-End Development:** Node.js, Express.js, Django, Flask, FastAPI, RESTful APIs  
**Programming Languages:** JavaScript (ES6+), Python, Java, C, Solidity  
**Databases:** MongoDB, Firebase, MySQL, SQLite  
**Tools & Platforms:** Git, Docker, Selenium, Playwright, Google Cloud Platform (GCP)  
**Data Analytics & App Frameworks:** NumPy, Pandas, Matplotlib, Seaborn, Streamlit, Gradio  
**Certifications:** Python Bootcamp: Zero to Hero, Full Stack Developer Career Path, Java Full Stack Development, Data Visualization in Tableau & Power BI

**SKILLS & CERTIFICATIONS**

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HKBK College of Engineering - B.Tech, ISE	2022 - Present
CGPA: 8.33	
Shree Samartha College - Class 12	2022
Percentage: 81%	
JSPM's Prodigy Public School - CBSE Secondary (Class 10)	2020
Percentage: 92%	