Shreyas N

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Profile

AI/ML enthusiast and and creative developer with an entrepreneurial spirit, driven by curiosity and real-world problem-solving from smart web apps and prediction systems to blockchain tools and creative UI/UX. Always exploring new tech, pushing boundaries, and turning ideas into real, usable products that make an impact.

Work Experience

SIGGRAPH BNMIT - COMPUTER GRAPHIC CLUB, Bangalore   Jan 2024 - Present
Web Developer and Designer

- Delivered 4+ client websites including portfolio sites, event landing pages, and registration platforms designed for high user engagement and optimized for cross-device performance.
- Designed and implemented a high-conversion registration system for a client event, enabling frictionless ticketing and real-time QR validation for 2,000+ participants.
- Improved conversion rates by crafting visually compelling UIs and refining UX flows, leading to 30% faster user task completion on event sites.
- Designed 10+ brand assets including logos, posters, and digital kits that strengthened visual identity and improved brand recall across platforms.
- Collaborated with core teams to drive social media content design and marketing efforts, resulting in a 2x boost in event visibility and engagement.

Hoppryde, Bangalore   Nov 2023 - Mar 2024
Web Developer and UI/UX Intern

- Built and deployed a dynamic landing page featuring a real-time city-to-city ride search module, allowing users to select trip type (e.g., round trip/one way) and instantly view pricing options improving lead conversion by over 30%.
- Redesigned the platform's end-to-end user interface from login to booking confirmation, focused on intuitive navigation, responsive layouts, and frictionless user journeys.
- Conducted A/B testing and usability audits to validate designs, resulting in measurable improvements in user retention and task completion times.
- Created mobile-first and accessibility-compliant UI designs, enhancing overall platform usability and delivering a 25% boost in session duration.
- Worked closely with the product and dev team to align UX flows with business goals, ensuring consistency, clarity, and customer engagement throughout the platform.

Skills

Languages: C/C++, Java, Python, JavaScript, HTML, CSS

Technologies & Tools: React.js, Flask, Web3.js, Scikit-learn, Pandas, NumPy, Matplotlib, TensorFlow (basic), spaCy, Docker, Linear Regression, Naive Bayes, TF-IDF, Cosine Similarity, Model Evaluation (MSE), Data Preprocessing, Git, GitHub, Google Cloud Vision API, yFinance API, REST APIs

Design & UI/UX: Wireframing, Responsive Web Design, Figma, Pastel-themed UI Creation, UX Flow Optimization, Logo Design, High-Conversion Interface Design, Adobe suites, Canva

Soft Skills: Entrepreneurial mindset, Strategic thinker, Problem-solver, Rapid learner, Collaborative, Creative, Outcome-driven, Project Management, Leadership

Project Work

Blockchain Certificate Verification System: Built a decentralized platform to issue and verify academic certificates, reducing verification time by 90% and eliminating document fraud.
Integrated Ethereum smart contracts, IPFS for tamper-proof storage, and MetaMask for secure user access.
Designed a scalable and responsive frontend with React.js and Web3.js for seamless blockchain interaction.
Tech Stack: React.js, Solidity, Ethereum, IPFS, MetaMask, Web3.js

Stock Market Prediction Web App: Built a web-based machine learning tool to forecast stock prices using real-time data and linear regression.Fetched and processed live stock data via yFinance API and trained a prediction model evaluated with MSE.Developed a Flask-based app to display historical trends and next-day forecasts with clean, user-friendly UI.
Tech Stack: Python, Flask, Scikit-learn, yFinance, Pandas, HTML/CSS

Image Analysis using Google Vision API: Built a Flask-based application that leverages Google Cloud Vision API to extract labels, detect objects, and assess image safety. Enabled real-time feedback with bounding box overlays, confidence filtering, and dynamic result rendering in a responsive UI.

Tech Stack: Python, Flask, Google Cloud Vision, REST, PIL, HTML/CSS

House Price Prediction System: Built a regression model using Linear Regression and Random Forest to predict home prices based on location, size, and features. Deployed an interactive web interface for real-time predictions with input-based outputs and model evaluation using MSE.
Tech Stack: Python, scikit-learn, Pandas, Matplotlib, Streamlit

Netflix-style Movie Recommendation System: Built a content-based recommendation engine using TF-IDF and cosine similarity to suggest similar movies based on genre, cast, and keywords. Deployed an interactive Flask web app for real-time user queries and dynamic movie recommendations.
Tech Stack: Python, Flask, Scikit-learn, NLP, TF-IDF, Cosine Similarity

AI Healthcare Chatbot System: Built an intelligent chatbot using NLP (spaCy) and a Naive Bayes classifier to provide preliminary diagnosis from user-described symptoms. Designed a Flask-based interface with real-time interaction and deployed RESTful APIs for processing symptom inputs and generating predictions.
Tech Stack: Python, spaCy, scikit-learn, Naive Bayes, Flask, REST API, NLP

Motion-Controlled MIDI AIR Drum Kit: Built a virtual drum kit using Arduino Nano and MPU6050, detecting hand gestures via accelerometer data to trigger real-time MIDI drum sounds.Mapped dynamic motion to MIDI notes for snare, kick, and hi-hat, with low-latency signal transmission compatible with major DAWs like FL Studio.
Tech Stack: Arduino Nano, MPU6050, Embedded C, Serial MIDI, I2C

Accomplishments

- Conducted 8+ workshops and events as part of SIGGRAPH BNMIT, focused on computer graphics, design, and tech.
- Participated in multiple hackathons, including IBM and Qualcomm AI challenges.
- Secured 2nd place in Prothon, a college-level hackathon held at BNMIT.
- Attended several workshops and industry sessions by NVIDIA and other leading tech communities.
- Mentored teams and served as a judge during college-level hackathons held as part of induction programs.
- Founded a small startup called Ryzix aimed at semiconductor fabrication. it didn't take off, but taught valuable lessons in tech, grit, and building from scratch.

Education

BNMIT   Nov 2022 - Mar 2026
B.E. in ECE

Relevant Coursework: Object Oriented Programming, C/C++, Java, Python, Data Structures and Algorithms, Data Science , Fundamentals of Data Science, VLSI Design, Communication Networks, Embedded Systems and RTOS, Digital Image Processing, Computer Networks and Security, Artificial Intelligence and Machine Learning Applications

Certificates

- Programming Fundamentals using Python
- Statistics for R Programming
- Cisco Network Addressing & Basic Troubleshooting
- AI-900: Microsoft Azure AI Fundamentals
- Java Programming Fundamentals