Harshitha Puli

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Profile

I am a dedicated and skilled Computer Science professional with expertise in programming, user-centric design, and machine learning. With extensive experience in HTML, CSS, JavaScript, Python, SQL, and advanced tools such as Figma and Adobe Illustrator, I have successfully executed high impact projects under tight deadlines. Currently focused on leveraging data-driven insights to optimize user experiences and enhance system performance, I am passionate about solving complex problems, developing scalable architectures, and creating innovative solutions that integrate technology and design seamlessly.

Education

Sacred Heart University — Aug 2023 — Dec 2024
Masters in Computer Science — *Connecticut, USA*

MLR Institute of Technology — Aug 2019 — Aug 2023
Bachelor's in Computer Science and Engineering — *Hyderabad, India*

Experience

Software Designer — Aug 2022 – Present
Sacred Heart University — Makerspace — *Connecticut, USA*

- Worked with HTML, CSS, JavaScript, and Python to develop scalable systems & ensure seamless integrations.
- Used Figma for designing project prototypes, alongside advanced CAD tools for efficient system design and optimization.
- Improved user engagement by 40% through strategic website redesign and data-driven optimization.
- Delivered 15 high-impact projects within deadlines, using graphics editors to create professional-grade vector artwork.
- Achieved 95% client satisfaction on the Discover project through innovative design solutions.
- Organized and taught website development using HTML and CSS.

Projects

"Harmoni" Self-Care App | *Figma, Inkscape, Procreate* — Aug 2024 – Oct 2024

- Designed intuitive app layouts and user flows using Figma, ensuring a seamless and engaging user experience.
- Prototyped interactive designs conducting user testing and refining features based on feedback.
- Created custom illustrations and vector graphics in Procreate and Inkscape, establishing a cohesive visual identity.
- Incorporated user feedback to refine key features like personalized profiles, daily checkpoints, and progress tracking.

Spam Comments Detection In YouTube Using Machine Learning | *NLP, Python, HTML* — Aug 2023 – Dec 2023

- Developed a spam comment detection system for YouTube using machine learning and NLP techniques.
- Utilized HTML and CSS for frontend design, integrating with the back-end machine learning model.
- Integrated Flask for backend API and model deployment and Python for model deployment.
- Achieved 92.78% accuracy with multinomial Naive Bayes, outperforming other classifiers.

Sales Forecasting | *Python, ML, XGBoost,* — Oct 2024 – Dec 2024

- Model Development and System Architecture, Developed a sales forecasting model using XGBoost Regressor, optimizing performance through hyperparameter tuning and cross-validation.
- Addressed complexities like product attributes, pricing, and outlet details to ensure accurate predictions.Ensured the architecture could adapt to evolving business and data needs.
- Designed a scalable architecture to handle large sales data volumes while maintaining high performance.

Technical Skills

Languages: JavaScript, HTML, CSS, Python, C++, Java, C#.
Tools: Figma, Visual Studio Code, Ink-scape, CoralDraw, GitHub, GIMP, Adobe XD, Auto CAD, Flask, React.js.
Frameworks: Website Design, Visual Content Creation, User Interface (UI) Design, User Experience(UX) Design, Wire framing, Style Guides, Typography, Machine Learning(ML), Artificial Intelligence (AI).
Databases/Cloud: SQL, MySQL.
Interpersonal Skills: Problem solving, communication skills, attention to detail, continuous learning, organizational skills, teamwork, Adaptability, skill development, time management, project plans.

Interests and Achievements

- Authored a research paper titled "Machine Learning Approaches for Detecting Spam Comments on YouTube"
- Passionate about Dance and Art