Samad Mehndi

Email: mehndi.samad@gmail.com | Phone: 469-579-8267 | Location: Dallas, Tx
Github: samad-mehndi | LinkedIn: samad-mehndi | Portfolio

EDUCATION

University of Texas at Dallas — Dallas, TX
MS Computer Engineering w/ Machine Learning || GPA – 3.934 — May 2026
Key Courses: Embedded Systems, Data Structures, Algorithms, Machine Learning, NLP, Computer Architecture

Guru Gobind Singh Indraprastha University, — Delhi, India
B.Tech in Electrical and Electronics Engineering — Sep 2020

SKILLS

Programming Languages: Python, Java, JavaScript, TypeScript, SQL, NoSQL
ML & NLP: PyTorch, TensorFlow, Hugging Face, Transformers, BERT, GPT-2/3, spaCy, scikit-learn, LSTM, BigBird, Prompt Tuning
Frameworks & Tools: ReactJS, Node.js, Express, Django, Flask, FastAPI
Web Technologies: HTML5, CSS3, RESTful APIs, Microservices, JWT, Bcrypt
Cloud & Platforms: Git, GitHub, Jira, Jenkins, Postman, AWS, GCP, Azure, MySQL, PostgreSQL, MongoDB
Others: OOP, Data Structures & Algorithms, Linux, CI/CD

WORK EXPERIENCE

Software Engineer L1 - Think Future Technologies, Gurugram, India — Feb 2022 – Apr 2024
- Engineered high-performance REST APIs that supported over 1,000 concurrent requests per second, ensuring scalability and uptime.
- Diagnosed and resolved over 40+ bugs/month and performance issues monthly within a 20,000+ line codebase, collaborating with cross-functional teams in Agile sprints to ensure timely feature delivery and deployment.
- Created and optimized database queries, reducing data retrieval time by 30% and improving manipulation efficiency by 25%, while also contributing to frontend development using Reactjs to support seamless full-stack feature integration.

Software Engineering Intern - Think Future Technologies, Gurugram, India — Nov 2021 – Jan 2022
- Contributed to developing a web-based admin management dashboard for Troikaa Pharmaceuticals used by 10+ internal users, implementing user account management, email automation for communication, WebSocket-based real-time notifications.
- Built a secure movie listing web app with JWT-based login authentication, enabling users to add, update, and delete movie entries while ensuring secure session handling.

Teaching Assistant - Coding Ninjas, Gurugram, India — Aug 2020 – Dec 2020
- Provided valuable assistance to students in Data Structures and Algorithms, addressing their queries and clarifying concepts in C++, and successfully resolved over 500 doubts through live chat interactions.

PROJECTS

Kidney Disease Classification — May 2025
- Built an end-to-end ML pipeline using TensorFlow and Keras to classify kidney disease from CT scan images, achieving 87.1% validation accuracy with 0.30 loss.
- Integrated DVC for data versioning and MLflow for experiment tracking, with automated evaluation and deployment via Flask on AWS EC2.
- Designed modular training and evaluation stages with YAML-based configuration and tracked pipeline reproducibility using DVC and Git.

Personal Portfolio Website — May 2025
- Designed and developed a fully responsive portfolio website using React.js and modern JavaScript ES6+, showcasing projects and technical skills with smooth animations and intuitive user navigation across desktop and mobile devices.
- Integrated third-party APIs including EmailJS for contact form functionality and tsparticles for interactive particle backgrounds, featuring cross-browser compatible responsive design with mobile hamburger navigation, modal overlays with scroll-lock, and optimized performance with environment variable configuration.

NLP-based Mental Health Support Chatbot — Mar 2025
- A conversational assistant designed to detect user sentiment and intent using transformer-based models, offering empathetic responses and guiding users to mental health resources.
- Implemented emotion classification, mental health resource recommendations, and conversational flow management, leveraging Hugging Face transformers and real-world mental health dialogue datasets.

Real Estate Property Listing Web Application — Feb 2025
- Developed a responsive interface for 200+ property listings with advanced search and filtering using React Router and Redux.
- Created user-centric navigation and integrated Firebase for image storage and Swiper.js for mobile-friendly interactive galleries styled with Tailwind CSS.