MAHAD SHAHID

FULL STACK AI/ML DEVELOPER

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A dedicated Full Stack AI/ML developer with a proven track record in advanced machine learning projects, specializing in innovative generative AI solutions such as floor plan generation for the Saudi government. Experience implementing state-of-the-art architectures including U-Net, GANs, and Stable Diffusion

TECHNICAL SKILLS

Generative Adversarial Networks	Pytorch	MERN Development
Stable Diffusion	TensorFlow	Flask

KEY ACHIEVEMENTS

- **Floor Plan Generation:** Successfully scraped floor plan images from a live website and fine-tuned a Stable Diffusion model using advanced techniques like VAEs, resulting in a generative model capable of producing highly accurate and detailed floor plan images from textual prompts.
- **SnapAutism:** Final Year Project of a mobile app using React Native, Node/Express and Flask to detect autism in children using AI algorithms like Logistic Regression, confirming with a direct registered psychologist, and incorporating additional features like live chat, community forums, and interactive games for kids using Google Mediapipe

PROFESSIONAL EXPERIENCE

Python AI/ML Developer, Narsun Studios   **July 2024 - Present**

- Implementing cutting-edge machine learning architectures including U-Net and VAEs to enhance image generation capabilities.
- An advanced AI-powered floor plan generation project exploring generative models, successfully scraping and fine-tuning images to produce high-fidelity floor plan designs.

EDUCATION

Bachelor of Science in Software Engineering, COMSATS   **Feb 2021 - Jan 2025**

COMSATS Institute of Information & Technology, Lahore
- Relevant coursework in Software Engineering concepts and theory.
- Final Year Project incorporating technologies like react-native, python and flask.

FSC (Pre - Engineering)   **Sep 2018 - Sep 2020**

Pakturk Maarif Int. Schools & Colleges, Lahore
- Equipped myself with necessary advanced mathematical concepts required in Engineering.

CERTIFICATIONS

Machine Learning Specialization Stanford	Learned applied mathematics behind the working of Machine Learning.	**TensorFlow Developer** DeepLearning.AI	Gained technical skills into the working of CNNs and RNNs via Tensorflow library
Generative AI with LLMs DeepLearning.AI	Learned in depth about the transformer's architecture, its usage and practical applications.	**GAN Specialization** DeepLearning.AI	Completed a comprehensive GANs specialization, mastering GAN architecture. Gained expertise in advanced techniques like DCGANs and StyleGAN.