MUHAMMAD ADIL

Web Developer (MERN) | AI/ML Engineer

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SUMMARY

Full-stack developer with expertise in MERN stack, skilled in building responsive, user-centric web applications. Proficient in Python, data analysis (NumPy, Pandas), and AI integrations including text-to-image generation and intelligent scheduling systems. Strong focus on performance optimization, UI design, and end-to-end project execution.

SKILLS

- **Technologies:** HTML, CSS, JavaScript (ES6+), Python, TypeScript
- **Frameworks & Libraries:** React.js, Node.js, Express.js, Tailwind CSS, Material UI
- **AI/ML & Data:** NumPy, Pandas, TensorFlow, PyTorch, OpenCV,
- **Tools & Platforms:** MongoDB, Git, GitHub, VS Code, Netlify, Vercel, Kaggle, Jupyter
- **Other:** Microsoft Office, REST API Integration, Responsive UI Design

EDUCATION

- **VIRTUAL University of Pakistan (4th semester)** ***Sep 2023 - Present***
  Bachelors in Computer Science
  Oop, Data Structures, Web development, Python, System Designing.

EXPERIENCE

Website Development Leader – ECC ***Jan 2025 – may 2025***

- Enhanced student engagement through custom web solutions.
- Built key educational tools including a **Study Scheduler**, **Aggregate Calculator** and **Student Test Platform** for classes 9–12 preparing for NTS, GAT, and other exams.

AI/ML Internship – CREOVATA ***May 2025 – June 2025***

- Designed and trained ML models, applied advanced feature engineering techniques, and supported deployment of AI solutions for media and content innovation.

PROJECTS

Text To Image Generation (Penetrated Model) GitHub

Tools used: Python, Hugging Face, Transformers, PyTorch, Stable Diffusion v1.5, CUDA, Jupyter

- Developed a text-to-image generation pipeline using Stable Diffusion v1.5 and Hugging Face Diffusers
- Optimized model performance with PyTorchfloat16 and GPU acceleration
- Generated and displayed AI-generated images from natural language prompts

AI job portal GitHub

Tools used: React, NodeJS, Express.js, redux, Tailwind CSS, python, ML model, Cloudinary, MongoDB, Flask

- Built AI-Powered Job Portal using MERN Stack with ML-based job placement prediction.
- Integrated Flask ML model for real-time job outcome predictions.

Traffic Sign Recognition model GitHub

Tools used: Python, TensorFlow, Keras, Pandas, NumPy, Matplotlib, CNN, OpenCV

- Built Traffic Sign Recognition model using CNN and Keras.
- Achieved accurate classification of 58 traffic sign categories.

CERTIFICATIONS

- Certified **Frontend Developer** from ***META***
- pursuing **AI/ML Developer** from ***NAVTTC***

LANGUAGES

- English: Fluent