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, ML models Data Analysis
- **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 ***Sep 2023 - Present***

Bachelors in Computer Science

Oops, Data Structures, Web development, Python, System Designing.

EXPERIENCE

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

- 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.
- Enhanced student engagement through custom web solutions.

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

- 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)

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

GitHub Repo

- Developed a text-to-image generation pipeline using Stable Diffusion v1.5 and Hugging Face Diffusers
- Optimized model performance with PyTorch float16 and GPU acceleration
- Generated and displayed AI-generated images from natural language prompts

Snake Game

Tools used: Python, Tkinter

GitHub Repo

- Classic Snake Game developed in Python using Tkinter for a simple GUI.
- Real-time score tracking with smooth controls and increasing difficulty.

Study Scheduler Genrator (ECC)

Tools used: JavaScript, CSS, jsPDF

GitHub Repo | Live Demo

- Creates smart, customizable study schedules based on user input.
- Built with JavaScript and jsPDF for easy planning and PDF export.

CERTIFICATIONS

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

LANGUAGES

- English: Fluent
- Urdu: Fluent