Vedant Tendulkar

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EDUCATION

VIT Bhopal, Bhopal   **Third Year student**

B.Tech Computer Science Engineering (Cloud Computing and Automation) , 8.43
Relevant course work: Specializing in Cloud Computing

PROJECTS

SECURE VPN SOLUTION ON AWS

- Designed and deployed a personal WireGuard VPN server on an AWS EC2 instance to bypass network restrictions and secure internet traffic.
- **AWS EC2, WireGuard, Ubuntu Linux**, Networking (TCP/IP, DNS), SSH.
- Utilized systematic command-line diagnostics (wg show, iptables, ufw status) to identify and resolve complex network issues.
- **Outcome**: Successfully established a functional and secure personal VPN, demonstrating strong capabilities in cloud networking and Linux system administration.

PERSONALIZED GPT-2 TEXT GENERATION API WITH WEB UI   **LINK**

- Developed and deployed a GPU-accelerated text generation API using **FastAPI** to serve an **Hugging Face GPT-2 model**, enabling **efficient local inference**.
- Engineered a **Docker container** for the application, optimizing the build process by leveraging **PyTorch CUDA base images** and managing dependencies to ensure seamless GPU access on NVIDIA RTX 3050 (made for laptop) hardware.
- **Outcome**: Successfully created a self-contained, high-performance solution for natural language generation, demonstrating proficiency in MLOps principles, containerization, and full-stack API development.

AI GENERATED DATA MODELING AND TESTING (Research Project)   Link

- Developed a comprehensive ML project exploring AI-generated and semi-original data for predictive modeling across domains like weather detection, Diabetes, and simple stock market analysis.
- This is an ongoing Research project focusing on building a efficient way to find and test data that is readily available and doesn't need special filtering.
- Used Python, Jupyter Notebook, sklearn -(Random Forest, Logistic Regression, Linear Regression)

SKILLS AND CERTIFICATIONS

Programming languages: **Python, Java, C, C++, TypeScript, C**

Cloud Services: **AWS, Docker, Vercel, WinSCP.**

Technologies: **React**.js, **Next.**js, **TensorFlow**(Intermediate), NumPy, Pandas, Matplotlib

Languages: English, Hindi ,Marathi

Courses: **Complete Web Development Bootcamp** (Udemy) , **Fundamentals of AIML**(VITyarthi), **Applied Machine Learning in Python** (Coursera).