Vansh Bhatnagar

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SUMMARY

I'm an AI Developer and Backend Engineer specializing in production-ready machine learning systems. I design and deploy end-to-end ML pipelines using PyTorch and TensorFlow, with deep expertise in neural networks, retrieval-augmented generation, and generative AI. My focus is building scalable, distributed systems that seamlessly bridge cutting-edge AI research with real-world applications that perform at scale.

WORK EXPERIENCE

9AI | SDE Intern (AI)   **September 2025 – March 2026**

- Developing and executing AI strategies at 9AI, an enterprise AI growth firm focused on accelerating AI adoption and maximizing ROI through AI consultancy, workforce solutions, intelligent agents, and custom AI development.

NJR I3 Labs Pvt. Ltd.| AI/ML Intern   **Apr 2025 – July 2025**

- Developed interactive 3D learning interface using Three.js that increased user engagement by 35%. Improved knowledge retention rates by 20% through immersive visualization of complex educational concepts.
- Implemented AI-driven content personalization algorithms with Gemini AI, achieving 85% recommendation accuracy. Reduced average learning completion time by 30% through intelligent learning path optimization.

SKILLS

- **AI/ML Development:** TensorFlow, PyTorch, Neural Networks, Natural Language Processing, Computer Vision, LangChain, LangGraph, TTS, STT, Re-Rankers
- **Cloud & Infrastructure:** AWS, GCP, Azure, Terraform
- **DevOps & Automation:** Jenkins, Git, Docker, Kubernetes, Ansible
- **Backend Development:** Django, Flask, Express, GraphQL, WebRTC Integrations
- **Database Management:** MongoDB, PostgreSQL, pgAdmin, ER/Studio
- **Testing & Quality Assurance:** Selenium, Unit Test, Pytest
- **Soft Skills:** Interactive, Adaptability, Teamwork, Time Management

RELEVANT PROJECTS

LangGraph CyberSecurity Agent | github.com/Vansh41104/LangGraph-CyberSecurity-Agent   **Feb 2025 -Mar 2025**

- Engineered a comprehensive cybersecurity solution using LangGraph and Meta Llama 4, deploying intelligent multi-agent applications that enhanced security protocols across devices.
- Conducted rigorous vulnerability assessments using advanced integrated scanning tools such as Nmap, Gobuster, FFUF, and SQLMap, identifying and mitigating over 1,500 potential security threats within infrastructures to bolster defense mechanisms.

AI Based Grass and Milk Production Predictor | github.com/Vansh41104/FarmML_Project   **Sep 2024 – Dec 2024**

- Improved a deep-learning computer vision system to analyze agricultural images, achieving a 40% increase in accuracy for grass quality evaluation and yield forecasting, processing over 10,000 farm photos weekly
- The solution uses image processing algorithms to scan important features such as colour, texture, and morphology to produce quality indexes and weight prediction with high accuracy.

EDUCATION

B. Tech in Computer Science   **Sep 2022 – June 2026**

- Techno India NJR Institute of Technology, Udaipur, Rajasthan

ACHIEVEMENTS

- Led a team in creating a **Fiat-to-Fiat Crypto Swap Platform** to simplify forex transactions using **Stellar chain** in **0xGenignite Hackathon** held at **NIT, Goa** and secured **1st** Place
  - This optimizes cross-border payments by comparing **Stellar blockchain DEX** routes with traditional FX providers, offering users **5–15% savings** and full fee transparency.
  - Built on **Stellar** with **Soroban smart contracts**, **Freighter wallet integration**, and **Wormhole cross-chain** support for secure, auditable, and **multi-chain international transactions**.

- Led a team in creating an AI-driven medical diagnostic system for rural societies in the **CodeRed 4.0 Hackathon** and stood **2nd** overall.
  - Designed and executed a Deep-Learning-based CNN model for the analysis of X-rays and CT scans of over 10,000 images to predict potential diseases
  - Contributed towards making advanced medical diagnostics accessible to deprived rural societies.

- Received a **Letter of Recognition from WHO** for developing an interactive monitoring platform for unvaccinated children.
  - Implemented a geo-tagged dashboard to effectively track and display vaccination coverage.
  - Created a complete system for monitoring daily vaccine events in real time.