

# ABHINAV VERMA

## Machine Learning Engineer

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[portfolio-et41.onrender.com](https://portfolio-et41.onrender.com)

## SUMMARY

Results-driven ML & Data Science Engineer with hands-on experience in predictive modeling, machine learning and deployment using Flask and Dash. Skilled in Python, scikit-learn, and API integration. Proven ability to build end-to-end ML pipelines and derive actionable insights from data.

## INTERNSHIP/TRAININGS

### TOXSL TECHNOLOGIES PVT LTD.

Mohali, Punjab

#### Machine Learning Trainee

June, 2025 – August, 2025

Working on ML projects, model tuning, and pipeline automation using Python and Scikit-learn.

### ANSH INFOTECH PVT. LTD.

Ludhiana, Punjab

#### Data Science Trainee

June, 2024 – July 2024

Conducted Data cleaning, analysis, and modeling. Built data pipelines and visualization dashboards.

### PG TECH PVT LTD.

Mohali, Punjab

#### Python Developer Trainee

June, 2023 – July 2023

Built Python-based automation tools, handled API integrations, and optimized backend logic.

## PROJECTS

- Car Price Predictor** – Built a dataset-trained Car Price Predictor with Plotly-Dash that estimates vehicle values using both manual input and web-scraped data from multiple car listing websites.
- AI Text-to-Image Generator (Group Project)** – Built with Stable Diffusion and PyTorch that converts natural language prompts into high-quality images.
- AI Resume Analyzer** – Built using Dash and Ollama LLM that extracts insights from PDFs with custom loading states and real-time feedback.
- Gen-AI Semantic Sketch Renderer** – A Dash-based generative AI app that converts sketches into high-quality images using Gemini semantic prompting, Stable Diffusion DreamShaper, and ControlNet edge guidance with GPU acceleration.

## EDUCATION

### CT UNIVERSITY

Ludhiana, Punjab

#### Bachelor of Technology in Computer Science with Data Science and AI Specialization

2022-2026

- Achieved CGPA 8.5 + till now

### TAGORE PUBLIC SCHOOL

Ludhiana, Punjab

- 12th: 85% | 10th: 83%

2010-2022

## KEY SKILLS

**Language:** Python

**Database:** MongoDB (NoSQL)

**Libraries:** Numpy | Pandas | Plotly | Sckit-Learn | NLP | PyTorch | HuggingFace | Transformers | LLM

**Tools:** Git | VSCode | Google Colab

**Other:** Dash | API Integration | Problem Solving | Visualization

## CERTIFICATIONS

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- Python | IBM
- Machine Learning | IBM
- Data Science | IBM
- Big Data | IBM
- Hackathon Participation | CT UNIVERSITY, 2023
- Hackathon Participation | CT UNIVERSITY & TechVerse, 2025