# Vansh Khattar

Email: vanshkhattar@gmail.com | Phone: +91 9958468893

LinkedIn | Github


## EDUCATION

**VIT BHOPAL UNIVERSITY** — Bhopal, MP

Bachelor of Technology — 2022 - 2026

Computer Science and Engineering with specialization in AI & ML.

CGPA: **7.96**

## WORK EXPERIENCE

**DIGITAL INDIA CORPORATION** — New Delhi, Delhi

Web Development & Testing Intern — Oct 2024– Dec 2024

- Developed a PHP script to automate file cleanup based on access time and Amazon S3 storage.
- Spearheaded the creation of 22 new test cases for IndiaHandmade.com, targeting critical user flows and edge cases thereby expanding test coverage by 15% within the seller onboarding process.
- Tested seller onboarding by listing products and reporting usability issues to improve the seller experience.
- Conducted 63 functional tests on IndiaHandmade.com and Esaras.in via ONDC, identifying 11 bugs, including 3 critical errors related to order placement and payment processing, ensuring successful ONDC integration.

## TECHNOLOGIES

- **Programming Languages:** Python, C++, SQL, HTML, CSS, JavaScript, PHP
- **Frameworks & Libraries**: scikit-learn, TensorFlow, pandas, NumPy, matplotlib, seaborn, Flask, FastAPI
- **Databases:** MySQL
- **Tools & Technologies:** RESTful APIs, Fast API, Git
- **Concepts:** Data Structures & Algorithms, Object oriented programming, Machine Learning.

## PROJECTS

**PNEUMONIA DETECTION USING CNN** — GitHub

- Built and deployed a Convolutional Neural Network (CNN) model to detect pneumonia from chest X-ray images with high accuracy.
- Handled 750+ MB of labeled medical image data, applying custom preprocessing, augmentation, and normalization pipelines to improve robustness.
- Designed the workflow in modular Jupyter notebooks ensuring reproducibility, scalability, and experimentation flexibility.
- Improved model performance via exploratory data analysis (EDA), hyperparameter tuning, and augmentation strategies.

**STOCK MARKET PREDICTION USING MACHINE LEARNING** — GitHub

- Engineered machine learning models (Random Forest, Artificial Neural Network) to forecast stock price trends using 10 years of historical market data.
- Performed feature engineering and time-series preprocessing (lag features, rolling averages) to enhance predictive accuracy.
- Evaluated models with Mean Squared Error (MSE) and benchmarked performance to ensure prediction reliability.
- Organized research and experiments into modular, reproducible Jupyter notebooks for transparent ML workflows.

## CERTIFICATIONS

- Machine Learning Specialization – Stanford (Coursera) (2024)
- Privacy & Security in Online Social Media – IIIT Hyderabad (NPTEL) (2024)
- Applied ML in Python – University of Michigan (Coursera) (2023)
- Introduction to AI – University of Helsinki (Elements of AI) (2022)

## EXTRACURRICULAR

- Created ValutValue to tackle retail waste; our AI model successfully identified a 20% potential reduction in excess inventory and a projected 7% revenue increase through data-driven markdown timing.
- Increased decision-making accuracy by 40% in high-stakes scenarios by integrating real-time behavioral analysis with quantitative frameworks, leading to a consistent positive ROI.