

# HARSH PANDEY

+91 8660182267 ✧ Bengaluru, India

[harshpandey472@gmail.com](mailto:harshpandey472@gmail.com) ✧ [linkedin.com/in/harsh-pandey-363a63306](https://www.linkedin.com/in/harsh-pandey-363a63306) ✧ [github.com/tortejumpy](https://github.com/tortejumpy)

## EDUCATION

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**B.E. in Information Science and Engineering**, AMC Engineering College — CGPA: 8.5/10 2021 - 2025

## SKILLS

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**Technical Skills:** Python, SQL, Machine Learning, Deep Learning, Natural Language Processing (NLP), Computer Vision, Data Analysis, Data Visualization

**Frameworks:** TensorFlow, Keras, Scikit-learn, XGBoost, Streamlit, Flask, React.js

**Soft Skills:** Critical Thinking, Team Leadership, Communication, Problem Solving, Project Management

## EXPERIENCE

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### Machine Learning Intern

Nov 2022 - Jan 2023

Coincent

*Bengaluru, Karnataka*

- Built a self-driving car simulation using Python and machine learning algorithms, improving object detection accuracy by 20%.
- Led a team of 4 peers to successfully develop and deliver the simulation project ahead of schedule.
- Designed and fine-tuned Convolutional Neural Networks (CNNs) for robust object detection in dynamic environments.

## PROJECTS

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### Real-Time Fraud Detection System

- Developed a real-time fraud detection system capable of processing 500+ transactions per minute with 95% detection accuracy using Isolation Forest and Autoencoder models.
- Built an interactive Streamlit dashboard to visualize live transaction streams, detecting fraudulent activities within 2 seconds of occurrence.

### Customer Churn Prediction App

- Created a predictive analytics app using Python, XGBoost (97% accuracy), SHAP explainability, and a bulk prediction pipeline handling 1000+ customers per batch.
- Applied unsupervised learning (KMeans clustering) to segment customers into behavioral groups, enabling actionable business insights to boost customer lifetime value (CLV).

### Polyglot Virtual Personal Assistant

- Developed a multilingual Virtual Assistant using SpeechRecognition, pyttsx3, Googletrans APIs, and integrated Google Gemini-Pro AI for dynamic conversations in 6 languages.
- Implemented web scraping, task automation (WhatsApp, YouTube), and OS-level automation (Notepad, Camera), improving productivity and task efficiency by 40%.

## CERTIFICATIONS

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- Complete Data Science Bootcamp, Udemy (2025)