

# Nirmal Patel

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## PROFILE

B.Sc. IT graduate and aspiring **AI/ML Engineer** with a strong foundation in **Python, Machine Learning, and Deep Learning**. Skilled in developing intelligent models, data preprocessing, and API integration. Passionate about applying AI to solve real-world problems with clean and efficient code.

## SKILLS

**Languages:** Python, PHP, JavaScript, SQL

**Frameworks & Libraries:** Laravel, Django, TensorFlow, Keras, NumPy, Pandas, Matplotlib, Scikit-learn

**Machine Learning & Deep Learning Concepts:** Data Preprocessing, Exploratory Data Analysis (EDA), Feature Engineering, Model Training & Evaluation, Hyperparameter Tuning, Supervised & Unsupervised Learning, ANN, CNN, RNN, LSTM, NLP.

**Database:** MySQL

**Tools & Platforms:** Git, VS Code, Jupyter Notebook, Postman, Hugging Face

## EDUCATION

### Ganpat University

Gujarat, India

#### B.sc. (CA & IT)

2022 – 2025

- CGPA : 7.97

#### M.sc. (CA & IT) - (Ongoing)

2025 – 2027

- Current CGPA : 8.6

## EXPERIENCE

### BM Coder - Backend Developer Intern

Jan 2025 – jun 2025

- As a Backend Developer Intern at BM Coder, I built and maintained dynamic web applications, crafting robust APIs and optimized database structures to deliver scalable, high-performance solutions. I resolved complex bugs in live projects, enhancing reliability and user satisfaction, and actively participated in code reviews to uphold best practices..

## PROJECTS

### Used Car Value Estimator

Sep 2025 – Sep 2025

- Designed and trained a **Neural Network model** to estimate the **resale value of pre-owned cars** based on multiple attributes such as age, mileage, and brand.
- Optimized **data preprocessing and normalization techniques** for accurate price prediction on **large datasets**.
- Deployed the model using FastAPI and hosted on Huggingface using Python, TensorFlow, FastAPI, Pandas, NumPy, Hugging Face. **(Click for Live Demo and Code)**

### CampusHire Predictor

Sep 2025 - Sep 2025

- Built a **Neural Network-based classification model** to predict a student's **placement probability** using academic and performance data.
- Enhanced accuracy through data cleaning, normalization, and feature optimization using Python, TensorFlow, Scikit-learn, Pandas and Matplotlib. **(Click for Live Demo and Code)**

### Email Spam Classifier

Aug 2025 - Aug 2025

- Developed an **ML-based text classification model** to identify spam emails using TF-IDF and natural language preprocessing.
- Compared multiple algorithms (Naïve Bayes, Logistic Regression, SVM) and optimized for precision and recall. Created a simple **interactive interface** for testing live email inputs.