

# Dhiraj M. Patil

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## Career Objective

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Computer Science & Engineering (AI & ML) student with a strong foundation in **Machine Learning, Deep Learning, and AI-driven applications**. Passionate about solving real-world problems using **Python, TensorFlow, PyTorch, NLP, and Computer Vision**. Seeking AI/ML internships or full-time roles.

## Education

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**Bachelor of Engineering (B.E.) in Computer Science & Engineering (AI & ML)**

*University of Mumbai*

Expected Graduation: 2025

## Skills

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- **Programming:** Python (NumPy, Pandas, Polaris), TensorFlow, Keras, PyTorch, Transformers
- **Machine Learning & Deep Learning:** CNN, RNN, LSTM, GANs, Transformers
- **Computer Vision:** OpenCV, Image Classification, Feature Extraction
- **NLP:** Text Classification, Summarization, Generation, Sentiment Analysis
- **Data Handling & Visualization:** Matplotlib, Seaborn, Feature Engineering
- **Soft Skills:** Problem-Solving, Analytical Thinking, Teamwork, Communication

## Certifications

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- AWS Data Engineering (AWS Certified)
- Supervised Machine Learning: Regression & Classification (Coursera)
- Advanced Algorithms (Coursera)
- Generative AI with AWS (Coursera)

## Projects & Academic Work

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### Real-Time Hand Sign Recognition

- Built a **computer vision** model using **OpenCV & TensorFlow** for real-time sign language recognition.
- Applied CNN-based feature extraction for high accuracy.

### Image Classification & Descriptor

- Developed an **image classification** model using CNN with **ResNet & VGG16**.
- Created an **image descriptor pipeline** for feature extraction.

### Text Classification & Summarization

- Implemented **NLP-based text classification** using **BERT & LSTM**.
- Built an **AI-driven text summarizer** for large document analysis.

### GAN-Based Image Wallpaper Generator (Ongoing)

- Designing a **Generative Adversarial Network (GAN)** to generate high-quality wallpapers.
- Experimenting with **StyleGAN & DCGAN** for diverse image outputs.