

# Om Gosavi

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## PROFESSIONAL SUMMARY

Passionate B.Tech student at SPPU University with hands-on expertise in building 5 production-grade AI/ML systems. Specialized in full-stack machine learning with proven skills in NLP, computer vision, and time-series forecasting. Demonstrated ability to design, train, and deploy complex ML models at scale using Python, TensorFlow, and cloud infrastructure.

**Core Strengths:** Full-Stack ML Deployment | Natural Language Processing | Computer Vision | Time-Series Forecasting | Deep Learning (CNN, LSTM) | Flask/FastAPI | React Integration | Hugging Face Spaces

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## EDUCATION

Bachelor of Technology (B.Tech) in Computer Engineering — Savitribai Phule Pune University (3rd Year)

- 1st Year CGPA: 10.0 | 2nd Year CGPA: 9.65
- Relevant Coursework: Advanced Algorithms, Database Management Systems, Data Structures, Operating Systems, Linear Algebra, Statistics & Probability

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## TECHNICAL SKILLS

**Programming Languages:** Python | JavaScript/TypeScript | C++ | SQL

**ML & AI Frameworks:** TensorFlow/Keras | Scikit-learn | PyTorch | NLTK | spaCy | Hugging Face Transformers | OpenCV

**Core Competencies:** Text Classification | Sentiment Analysis | Logistic Regression | CNN | LSTM | Feature Engineering | TF-IDF | NLP Preprocessing

**Backend & Deployment:** Flask | FastAPI | REST API | Hugging Face Spaces | Node.js | Express.js

**Frontend & Data Tools:** React | Next.js | MongoDB | Pandas | NumPy | Git/GitHub

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# MACHINE LEARNING PROJECTS

## 1. Real-Time Fake News Detection — NLP, Text Classification, Logistic Regression

- Achieved **94% accuracy** and **92% precision** using TF-IDF vectorization and NLP preprocessing pipeline
- **Live Demo:** <https://omg2ml.vercel.app/fake-news>

## 2. AI-Powered Resume Screener & ATS — Information Retrieval, Similarity Matching, Skill Extraction

- Enterprise B2B tool with **94% accuracy** in resume-to-JD alignment using TF-IDF + Cosine Similarity
- **Live Demo:** <https://omg2ml.vercel.app/resume-screener>

## 3. Smart Traffic Congestion Forecaster — Time-Series Forecasting, LSTM, Feature Engineering

- LSTM neural network trained on 2+ years of traffic data with 20+ temporal features for multi-junction predictions
- **Live Demo:** <https://omg2ml.vercel.app/traffic-predictor>

## 4. AI Mental Health Support Chatbot — Intent Classification, Sentiment Analysis, Crisis Detection

- Multi-class classifier (**83.70% accuracy**) for 8+ emotion categories with real-time crisis detection
- **Live Demo:** <https://omg2ml.vercel.app/mental-health>

## 5. Real-Time Sign Language Recognition — Computer Vision, CNN, Real-Time Inference

- CNN classifier with **98.93% validation accuracy** on 25 gesture classes, maintaining 30 FPS processing speed
- **Live Demo:** <https://omg2ml.vercel.app/sign-language>

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# TECHNICAL ACHIEVEMENTS & AWARDS

- **SIH2025 Internal Hackathon (MMCOE)** — 1st Position in college + Special Industry Prize
- **SIH2024 Internal Hackathon (MMCOE)** — 2nd Position in college
- **IEEE Techsangam 2025 (National Hackathon)** — Top 10 Finalist
- **SIH2023 Internal Hackathon (MMCOE)** — Top 30 Teams
- **Project Base Learning Competition (MMCOE)** — Best Project Award

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# SOFT SKILLS

Eager Learner, Adaptive, Problem Solving and Execution