PARAS SHRIKANT DAMALE

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PROFESSIONAL SUMMARY

Final-year Computer Science and Engineering student with demonstrated expertise in artificial intelligence, machine learning, and software development. Proven track record in developing innovative AI-driven solutions with strong problem-solving abilities and leadership experience. Seeking to leverage technical skills and a research background to contribute to cutting-edge technology solutions.

EDUCATION

Bachelor of Technology (B.Tech) **Present**
Computer Science and Engineering (Artificial Intelligence & Machine Learning)
KIT College of Engineering, Kolhapur

Higher School Certificate (HSC) **2022**
D. Y. Patil Junior College of Science, Kadamwadi, Kolhapur

Secondary School Certificate (SSC) **2020**
Private High School, Kolhapur

TECHNICAL SKILLS

Programming Languages:	Python, C
Web Technologies:	HTML, CSS, Flask, Django, FastAPI
Databases:	SQL (PostgreSQL, MySQL), MongoDB
Data Visualization:	Power BI, Tableau
ML/AI Frameworks:	TensorFlow, OpenCV, SpaCy, PyTorch
Cloud & Deployment:	Render, RESTful APIs, Postman, JSON, API Testing, Swagger/OpenAPI
Software Tools:	Git/GitHub, VS Code, Jupyter Notebook, Google Colab.

PROJECTS

Ediquick – AI-Based Video Editor *GitHub · Group Project*

- Architected an intelligent video editor that processes natural language and voice commands to execute complex editing tasks, reducing manual editing time by 60% through automated clip trimming, effect application, and audio synchronization.
- Integrated a sophisticated pipeline combining speech recognition (95% accuracy) for command input, NLP for intent parsing, and automated video rendering workflows, achieving 3x faster content creation.
- Technologies: Python, NLP (SpaCy), Speech Recognition, MoviePy, TensorFlow

Automated Video Moderation System *GitHub · Group Project*

- Engineered a real-time video moderation system to detect and blur sensitive content, directly implementing a novel CNN architecture from my published research.
- Deployed a high-performance deep learning pipeline using YOLOv11 for rapid person detection and a custom-trained CNN for nuanced content classification, ensuring high accuracy and low latency.
- Technologies: Python, CNN, YOLOv11, OpenCV, TensorFlow, MoviePy

Premium Predictor API *GitHub · Individual Project*

- Developed and deployed a production-ready insurance premium prediction API using FastAPI, enabling real-time premium calculations based on customer demographics and risk factors.
- Implemented advanced machine learning models for accurate premium estimation, featuring comprehensive data preprocessing, feature engineering, and model optimization techniques.
- Deployed the application on Render cloud platform with automated CI/CD pipeline, ensuring high availability and scalability for enterprise-level usage.
- Technologies: Python, FastAPI, Scikit-learn, Pandas, NumPy, Render, RESTful API

Financial Risk Prediction Model *GitHub · Individual Project*

- Developed a machine learning model to assess financial risk by analyzing balance sheet data uploaded by users.
- Engineered features by calculating key financial ratios, such as debt-to-equity and current ratios, to quantify liquidity, leverage, and solvency.
- Implemented a classification model to predict financial distress, enabling proactive risk management for investment and lending decisions.
- Technologies: Python, Pandas, Scikit-learn, Django

ACHIEVEMENTS & RECOGNITION

- **Runner-Up** – Project-Based Learning (PBL) Competition for innovative AI-based Video Editing Project (2024)
- **GATE 2025 Qualified** – Data Science Artificial Intelligence (DA) with All India Rank 5823
- **Research Publication** – International Journal of Computer Science and Information Security (IJCSIS)