Omkar Thakur

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Summary

Motivated Data Science student with a strong foundation in machine learning, data science, optimization theory, deep learning, and computer vision. Passionate about quantitative analysis and pursuing a career in the field of quantitative research and development. Experienced in building diverse learning-based projects and proficient in leveraging popular frameworks, including TensorFlow and PyTorch, to solve complex problems. Eager to apply analytical skills and technical expertise to drive impactful insights and innovations

Skills

Data Science, Machine Learning, Financial Modeling, Computer Vision, Deep Learning, Optimization, Python, SAS (Statistical Analysis System), Algorithmic Trading

Education

Savitribai Phule Pune University | Pune
Artificial Intelligence and Data Science | 05/2026

- Currently Pursuing 5 semister

Projects

Optimization Tool for Small-Scale Businesses:
Developed an optimization tool leveraging non-linear programming to assist small-scale businesses in resource allocation and decision-making. The tool optimizes operational efficiency by modeling constraints and objectives, enabling cost savings and improved productivity.

Integration of Computer Vision and NLP:
Created a system combining DenseNet (trained using transfer learning from ImageNet) with a BERT-based NLP model to extract contextual information. The project allowed users to ask questions about visual content on their screen, functioning similarly to Google Lens with added contextual querying.

Longevity Calculator:
Designed a hybrid longevity prediction model integrating neural networks with rule-based heuristics. The model evaluates key health and lifestyle indicators to estimate individual life expectancy, providing actionable insights for u ser s.

Health Prognostics for Skin Cancer:
Built a DenseNet-based system for detecting skin cancer, utilizing advanced image processing techniques. The model delivers accurate diagnostic predictions to assist in early detection and improve healthcare outcomes.

Certificates

- Supervised Machine Learning: Regression and Classification
- Advanced Learning Algorithms
- Unsupervised Learning, Recommenders
- Reinforcement Learning, AI for Medical Prognosis
- AI for Medical Diagnosis
- LLMOps
- Statistics for Data Science and Business Analysis
- calculus for machine learning
- MBA in a Box: Business Lessons from a CEO
- 7 courses in 1 - Diploma in Business Management