Raj Thakur

AI Enthusiast | B.Tech Computer Technology (AI Specialization)
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Professional Summary

Innovative and results-driven AI Engineer specializing in Machine Learning, Deep Learning, and Computer Vision. Passionate about solving real-world problems using AI and continuously learning new advancements in the field.

Education

- **Bachelor of Technology** - Computer Technology (Artificial Intelligence) (2026)
  Sage University, Indore, India
  Relevant Courses: Artificial Intelligence, Machine Learning, Deep Learning, Computer Vision
- **Higher Secondary (12th Grade)** - CBSE (2022)
  St. Mary's Convent School, Petlawad
  Percentage: 79.6%

Technical Skills

- Machine Learning (Scikit-Learn)
- Deep Learning [CNN, RNN, LSTM] (TensorFlow, Keras)
- Natural Language Processing (NLP)
- Computer Vision (OpenCV)
- AI System Design and Development
- API Development and Model Integration
- AI Strategy Development
- Cloud Platforms (Azure)
- Big Data Technologies (Hadoop)
- Model Deployment (Docker, Kubernetes)
- Version Control (GitHub)

Internships & Experience

- **Machine Learning Intern** - BharatIntern (Aug 2023 - Sep 2023) [Virtual]
  Developed predictive ML models for real-world datasets, focusing on data preprocessing & optimization.
  Applied Supervised Learning (Decision Trees, SVM, Random Forest) and improved model accuracy by 30%.
- **Data Science Intern** - CodeSoft (Aug 2023 - Sep 2023) [Virtual]
  Built AI-powered models for customer segmentation & sentiment analysis using Python & ML algorithms.
  Conducted EDA & visualization, enhancing model interpretability with SHAP values & performance tuning.

Highlighted Projects

- **Activity Recognition System for Surveillance**
  Built a 98% accurate AI model to detect suspicious activities in real-time using video frame analysis.
  Integrated LSTM & CNN for motion tracking, reducing manual monitoring efforts by 70%.
- **Facial Sentiment Recognition**
  Developed an emotion detection model with 80% accuracy, improving customer sentiment analysis.
  Used pretrained CNN models (VGG-16, ResNet) to classify happy, sad, angry, neutral emotions.
- **Age & Gender Recognition**
  Designed a real-time AI model for estimating age & gender with 94% accuracy in classification.
  Optimized for retail & security applications, enabling personalized customer experiences.

Achievements

- Best Paper Award - ACROSET Conference (2024)
- Best Paper Presentation - IEEE ICPS-ITI-AGS (2023)
- Chair - IEEE Student Branch, Sage University (2024)

Certifications

- Machine Learning - NPTEL (2023)
- Power BI - Google (2024)
- Computer Vision & CNN (2023)
- Deep Learning with TensorFlow - Samatrix (2024)