

ASHISH MISHRA

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Professional Summary

Results-driven Data Science professional with expertise in machine learning, computer vision, and AI model development. Proven track record in building production-ready systems including face recognition and recommendation engines. Proficient in Python, SQL, and modern ML frameworks with strong problem-solving abilities and passion for transforming data into actionable insights.

Education

Mewar University

Rajasthan, India

Bachelor of Technology in Computer Science

Expected Graduation: 2027

- Relevant Coursework: Machine Learning, Data Structures & Algorithms, Database Management Systems, Statistics

Experience

AI & Machine Learning Intern

April 2025 – June 2025

Central Tool Room And Training Center (CTTC)

Bhubaneswar, India

- Developed and deployed real-time face detection and recognition system using OpenCV and deep learning frameworks, achieving 95%+ accuracy on diverse datasets
- Implemented advanced image processing pipelines including preprocessing, feature extraction, and data augmentation techniques to enhance model performance
- Optimized machine learning models for production deployment, reducing inference time by 40% through model quantization and efficient architecture selection
- Collaborated with cross-functional teams to integrate AI solutions into existing systems, ensuring scalability and maintainability

Projects

Face Detection & Recognition System | Python, OpenCV, TensorFlow, Deep Learning

2025

- Built end-to-end facial recognition system utilizing CNNs and transfer learning with 95%+ accuracy
- Implemented real-time video processing pipeline capable of detecting and identifying multiple faces simultaneously
- Deployed model with optimized inference speed suitable for production environments

Movie Recommender System | Python, Pandas, Scikit-learn, Collaborative Filtering

2024

- Developed content-based and collaborative filtering recommendation engine processing 10,000+ movies dataset
- Applied NLP techniques for feature extraction from movie descriptions and user reviews
- Achieved 85% user satisfaction through hybrid recommendation approach combining multiple algorithms

AI Chatbot | Python, NLP, Machine Learning, Flask

2024

- Created intelligent conversational agent using natural language processing and intent classification
- Implemented context-aware response generation with 90% intent recognition accuracy

Technical Skills

Programming Languages: Python, SQL

Machine Learning: Scikit-learn, TensorFlow, Keras, PyTorch, Model Optimization, Hyperparameter Tuning

Data Science & Analysis: Pandas, NumPy, Statistical Analysis, A/B Testing, Hypothesis Testing

Data Visualization: Matplotlib, Seaborn, Plotly, Power BI, Tableau

Computer Vision: OpenCV, Image Processing, Object Detection, Facial Recognition

Tools & Technologies: Jupyter Notebook, Google Colab, Git, Docker, REST APIs, Flask

Database: MySQL, PostgreSQL, MongoDB

Certifications & Training

Power BI Certification | Data Visualization & Business Intelligence

2024

Ethical Hacking Workshop | Cybersecurity & Network Security

2024