ANIRUDH MISHRA

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SUMMARY

Computer Science engineering student skilled in full-stack development and machine learning. Experienced in building real-time applications, AI projects, and scalable web systems. Eager to contribute to impactful engineering roles with strong problem-solving and collaboration skills.

EDUCATION

B.Tech – Computer Science & Engineering   **2022-2026**
Shri Mata Vaishno Devi University, Jammu & Kashmir, India

WORK EXPERIENCE / POSITION HOLD

Front-End Developer Intern — Supista   **April 2025 – August 2025**

- Developed scalable UI components using Next.js, TypeScript, and Metronic for the company's ERP platform.
- Built advanced features like paginated notifications, Kanban drag-and-drop boards, Gantt charts, comment modules, and TanStack Table workflows.
- Integrated REST APIs and optimized state management to deliver responsive, production-ready web modules.

AI/ML Club Co-Lead — Shri Mata Vaishno Devi University   **August 2022 - Present**

- Delivered weekly ML guidance sessions for freshers, covering concepts, tools, and practical model building.
- Mentored juniors through project work, troubleshooting, and structured learning support.

PROJECTS

1. Context-Based Frame Interpolation

- Developed a deep-learning model to generate high-quality intermediate video frames for smooth slow-motion effects. Implemented context-aware motion analysis to reduce ghosting and motion blur.
- Tech Stack: Python, TensorFlow, Keras, OpenCV, NumPy

2. SwipeHire

- Creating a swipe-based recruitment platform enabling real-time candidate–job matching with an optimized UI and efficient API architecture.
- Integrating secure authentication, job filters, and AI-driven agents that automate candidate screening, profile scoring, and match notifications to improve hiring efficiency.

3. Movie Recommendation System

- Built a content-based movie recommendation system using TMDB metadata, NLP vectorization (TF-IDF), and cosine similarity for personalized suggestions.
- Implemented preprocessing, feature engineering, and a Streamlit UI for real-time movie search and recommendation delivery.
- Tech Stack: Python, Pandas, NumPy, Scikit-learn, TF-IDF, Cosine Similarity, Streamlit

4. Action Detection Using Machine Learning

- Developed a real-time human action recognition system using LSTM-based sequential modeling and MediaPipe keypoint extraction.
- Achieved 96% accuracy using .npy keypoint datasets, robust preprocessing, and a scalable ML pipeline for live video action detection.
- Tech Stack: Python, TensorFlow, NumPy, MediaPipe, OpenCV, Matplotlib, LSTM.

SKILLS

- **Web Development (Frameworks & Libraries):** React.js, Next.js, Node.js, Express.js, MongoDB, HTML, CSS, JavaScript, TypeScript, REST APIs, Redux, JWT Authentication, Tailwind CSS, Bootstrap, SCSS.
- **Programming Languages:** C++, Java, Python, JavaScript, C.
- **Machine Learning & AI:** Computer Vision, Model Training, Data Preprocessing, TensorFlow, Keras, PyTorch, MediaPipe, OpenCV,, Librosa, Optical Flow.
- **Development Tools:** VS Code, IntelliJ IDEA, PyCharm, NetBeans, Linux, Docker, Postman, Java Swing.
- **Version Control:** Git, GitHub, GitLab.

ADDITIONAL INFORMATION

- Participated in Smart India Hackathon 2024
- 2× Gold Medalist – University Football League
- Holder of NCC 'A' Certificate
- Completed 40+ hours of service under NSS
- Finalist in College-Level Project Expo Competition