ARCHIT SHUKLA

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EDUCATION

University Of Colorado Boulder • Boulder, CO — 2024 – 2026
Masters of Science • *Computer Science* • GPA: 4/4
Relevant Coursework: Gen AI for Software Dev., Machine Learning, Computer Vision, NLP, Design and Analysis of Algorithms, Big Data Architecture

SRM Institute of Science & Technology • Chennai, India — 2020 – 2024
Bachelor of Technology • *Computer Science & Engineering* • GPA: 3.81/4
Relevant Coursework: Artificial Intelligence, Operating Systems, Data Science, Web Development, Cybersecurity, Big Data Analytics, Software Engineering

WORK EXPERIENCE

Artificial Intelligence Intern – CodeClause — 2024
Bangalore, India

- Built **ML models** for sentiment analysis, digit recognition, and gesture control using **PyTorch**, **OpenCV**, and **TextBlob**.
- Optimized model accuracy by over **20%** through hyperparameter tuning and data augmentation.
- Deployed prototypes that reduced manual effort and enhanced user interactions in internal tooling.

Mentor – EdBhoomi — 2023
Bangalore, India

- Led **60-hour cohort** on **Python**, **ML**, **NLP**, and **deep learning**; drove **98% satisfaction** and improved assessment scores by **25%**.
- Designed and delivered hands-on labs using **Pandas**, **Scikit-learn**, **Matplotlib**, and **Seaborn**.
- Mentored 30+ students on projects covering **EDA**, **model deployment**, and **interpretability**.

Data Science Intern – Adflix Media — 2023
Pune, India

- Automated HR process tracking using **Python** and **Pandas**, improving task throughput by **85%**.
- Integrated **LLMs** for smarter text parsing; improved classification accuracy by **70%** using **deep learning NLP models**.
- Delivered end-to-end **analytics pipelines** for internal reporting dashboards.

PROJECTS

Real-Time MLOps Pipeline for Anomaly Detection [Live Demo] — 2025
- Built a **serverless** anomaly detection pipeline using **Autoencoders**, **Pub/Sub**, **Firestore**, and **Streamlit**.
- Engineered an **Autoencoder** model to detect anomalies, powering a live **Streamlit** dashboard with interactive visualization and threshold tuning.

Loan Sphere – Real-Time Loan Prediction Platform [Live Demo] — 2025
- Developed a real-time loan prediction system on **17M+ FFIEC records**, implementing class imbalance handling, threshold tuning, and **AUC-optimized modeling** for high-recall classification.
- Deployed a **production-ready Flask API** via **Docker** and **Google Cloud Run**, simplifying complex **ML pipelines** for intuitive user inputs and live frontend integration.

Archit Shukla Portfolio Website [Live Demo] — 2025
- Designed and developed a modern, single-page portfolio with **React**, **TypeScript**, **Tailwind CSS**, and **Three.js** for immersive UI/UX.
- Implemented smooth section navigation, **3D interactive elements**, animated transitions, and **dual-resume viewing** to enhance visitor engagement.
- Deployed on **Vercel** for fast, reliable performance and **GitHub**-hosted source code for maintainability and version control.

Media Control Using Gesture Recognition — 2024
- Developed a **gesture recognition system** to control music playback using hand gestures detected via webcam, achieving **95% accuracy**.
- Enhanced user experience by **80%** using **Python**, **OpenCV**, **Mediapipe**, and **PyAutoGUI** to enable intuitive, customizable gesture controls for play, pause, skip, and previous track functions.

Autism Sense — 2023
- Research project in development to classify autism in children using **ML algorithms** and **computer vision** to detect subtle facial cues.
- Achieves **90% accuracy** with **EfficientNet B3 CNN**, providing a low-cost, non-invasive early diagnostic tool.

TECHNICAL SKILLS

- Languages: Python, Java, SQL, JavaScript, C++, C, MATLAB
- Frameworks & Libraries: PyTorch, TensorFlow, Scikit-learn, Keras, React, Node.js, OpenCV, LangChain
- Data & Cloud: GCP, AWS, Azure, Docker, Kubernetes, Airflow, Spark, Kafka
- Big Data Tools: Hadoop, Hive, MongoDB, Cassandra, PostgreSQL, Snowflake
- Tools & Other: Git, Bash, Agile, Jenkins, Gradle, Looker, React Query, Zod, TypeScript