

ARCHIT SHUKLA

☎ +1 303.931.8281 • ✉ arsh9532@colorado.edu • 🌐 Portfolio

SUMMARY

Results-driven professional with experience in AI, back-end systems, and data solutions. Built ML pipelines improving prediction accuracy and optimized workflows for efficiency. Eager to build scalable systems with real-world impact.

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

WORK EXPERIENCE

Software Engineering Intern – AI/ML Focus – 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.

Programming Instructor – Data Science Track – 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 Engineering 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, JavaScript/TypeScript, Go, Java, C++, C, SQL, LaTeX
- Web & Backend: React.js, Flask, Django, Node.js, REST APIs, Microservices, JWT Auth
- Cloud & DevOps: GCP, AWS, Azure, Docker, Kubernetes, CI/CD, Infrastructure Automation
- Databases: PostgreSQL, MySQL, Snowflake, Neo4j, SQLite, Firestore
- ML & Data: PyTorch, TensorFlow, Keras, Scikit-learn, OpenCV, LangChain, Pandas, NumPy, PySpark
- Data Visualization & Tools: Tableau, Power BI, Plotly, Seaborn, Git, Airflow, Jenkins, Bash, Agile, JIRA, Confluence