

# Mihir D. Chauhan

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## EDUCATION

### University of Colorado at Boulder

*M.S. in Data Science, GPA: 3.96/4.00*

Boulder, Colorado

August 2024 - May 2026

- o **Related Coursework:** Data Mining, Statistical Methods and Applications I & II, Machine learning , Natural Language Processing, Data scale systems, Big data, Machine Learning.

### University of Mumbai

*B.E in Computer Engineering, GPA: 9.29/10.00*

Mumbai, India

August 2020 - May 2024

- o **Related Coursework:** Python programming, Quantitative analysis, Cloud Computing, Object-Oriented Programming, Data Structures & Algorithms, Database Management Systems, Computer Networks.

## SKILLS

**Programming:** Python, SQL, R, C++, Java, JavaScript

**Scientific Python:** NumPy, Pandas, SciPy, Matplotlib, Plotly, Seaborn

**ML/AI:** Scikit-learn, TensorFlow, PyTorch, model evaluation, error analysis, LLM, LangGraph, LangChain, RAG.

**Cloud & DevOps:** Azure, Google Cloud, AWS (ECS Fargate, RDS PostgreSQL, ElastiCache Redis, S3, CloudFront, Secrets Manager, CloudWatch, VPC, ALB), Docker, Kubernetes.

**Data/DE:** Feature engineering, data cleaning, Postgres, BigQuery, Supabase, REST APIs

**Visualization & Dashboards:** Power BI, Tableau, Streamlit

**Dev Practices:** Git, FastAPI, testing and documentation, stakeholder presentations

## EXPERIENCE

### Research Intern

*University of Colorado Anschutz Medical Campus*

Aurora, Colorado

Jan 2026 – Present

- Supporting annotation workflows and LLM/model evaluation using rubrics, QA checks, and error analysis to surface failure modes and clinical relevance issues.
- Led prompt engineering by refining templates, structured outputs, and guardrails; ran systematic prompt experiments to improve reliability and reduce errors.

### AI Research Engineer (Capstone Project)

*Honda 99P Labs*

Boulder, Colorado

Sept 2025 – December 2025

- Designed a multi-agent CEWI debate engine with hybrid retrieval (vector database) and a curated evidence pack for reproducible arguments.
- Implemented a FastAPI and Uvicorn backend with instrumentation inspired by LangFuse and Graphiti-style context engineering; applied advanced RAG patterns for high-signal citations.

### Junior Data Scientist Intern

*Kobayo*

Boulder, Colorado

May 2025 – August 2025

- Implemented an MLOps pipeline for a custom BERT model, creating a self-improving system with a human-in-the-loop feedback mechanism that continuously fine-tuned the model and boosted classification accuracy in a production environment.
- Developed and deployed a full-stack data ingestion API using Python, which orchestrated a resilient web scraping engine (Playwright) and integrated with a Supabase (PostgreSQL) backend to provide real-time, structured data.
- Leveraged LLMs (OpenAI) and advanced prompt engineering to build a module for extracting structured job skill data from unstructured text, enhancing the granularity of the company's core dataset.

## PROJECTS

### CodeSense: AI-Powered Code Review Automation Platform

*Independent Project*

Boulder, Colorado

Oct 2025 – December 2025

- Architected a Cloud-Native AI Code Reviewer by integrating GitHub Webhooks and GPT models to automate security scanning (Bandit) and generate real-time patch diffs for code vulnerabilities.
- Engineered a scalable FastAPI backend featuring 15+ REST endpoints, JWT authentication, and async Redis RQ workers to handle multi-tenant repository management and high-volume webhook processing.
- Deployed a robust AWS infrastructure via Terraform, utilizing ECS (Fargate), RDS, and ElastiCache within a secure VPC, while managing containerization and CI/CD through Docker and GitHub Actions.

### AI Interview Coach

*Independent Project*

Boulder, Colorado

March 2025 – May 2025

- Built an AI Interview Coach using Python, FastAPI, Streamlit, and LangChain to generate role-specific interview questions and answer guidance from job descriptions.
- Implemented a RAG-based workflow to ground responses in curated prep material and provide structured feedback (rubrics + follow-ups) for mock interview practice.

### Yoga Posture Correction and Detection | <https://journals.stmjournals.com/joosdt/article=2024/view=161704/>

Mumbai, India

*Team Lead*

Aug 2023 – May 2024

- Published an article and led a team to develop a yoga pose estimation model with 96.5% accuracy using neural networks and TensorFlow, deploying it with TensorFlow.js for real-time feedback.
- Processed 3,600+ images for data cleaning and structuring, enhancing model accuracy and training effectiveness by 30%, while creating an interactive platform, fostering 40% higher user participation.

## Certifications / Publications

- Completed several Google Cloud certificates and Badges:

[https://www.cloudskillsboost.google/public\\_profiles/f4a0a0fd-5ea0-44d9-8734-b180faa9f1b9](https://www.cloudskillsboost.google/public_profiles/f4a0a0fd-5ea0-44d9-8734-b180faa9f1b9)