

SUKRITI SEHGAL

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EDUCATION

University of Colorado Boulder

Aug 2024 – May 2026 (Expected)

Master of Science in Data Science (GPA: 3.8)

- Coursework: Machine Learning, Statistical Modeling, Data Mining, Datacenter-Scale Computing, Computer Vision

Maharaja Surajmal Institute of Technology, Delhi, India

Aug 2019 – Jul 2023

B.Tech in Electronics and Communication Engineering (GPA: 3.9)

TECHNICAL SKILLS

Languages: Python, SQL (T-SQL, SparkSQL, HiveQL), R, Dart

ML/AI: scikit-learn, TensorFlow, PyTorch, Hugging Face, LangChain; NLP, computer vision, time series, classification, clustering

Data/Backend: PostgreSQL, MySQL, MongoDB, ETL, data modeling, FastAPI, workflow automation (n8n), HubSpot (CRM integration)

Cloud/Tools: AWS, GCP, Azure, Docker, Git, Tableau, Power BI, Matplotlib, Seaborn, Excel

PROFESSIONAL EXPERIENCE

University of Colorado Boulder

Jan 2026 – Present

Course Assistant – CVEN 2017: Excel, Python, R Primer

Boulder, CO

- Design and deliver 12 hands-on labs in Excel, Python, and R for 120+ students, emphasizing logical problem-solving and core data analysis fundamentals.
- Develop beginner-friendly AI/ML-inspired exercises (data cleaning, EDA, modeling intuition) connecting foundational tools to modern data science workflows.
- Grade lab submissions and provide structured feedback on correctness, logic, reproducibility, and presentation throughout the semester.

GoodieBag Food Co.

Jun 2025 – Present

Data Science & AI Intern

Boulder, CO

- Improved marketing content throughput by 55% by building a LangChain marketing multi-agent pipeline that analyzes uploaded images to generate trend-aware captions and hashtags with continuous prompt iteration.
- Enabled weekly performance reporting for 10 stakeholders by engineering SQL pipelines to compute 20+ KPIs across sales and marketing datasets.
- Supported optimization across 7+ campaigns by delivering Tableau dashboards for ROI, engagement, and retention, impacting 10k+ active app users.
- Reduced manual triage effort by 40% by integrating a production chatbot across Flutter and FastAPI with PostgreSQL persistence and HubSpot CRM sync, and automating tagging, summarization, and assignment via coordinated AI/NLP agents.

C5 Consultare / University of Denver

Sept 2025 – Present

Data Analytics Intern

Arvada, CO

- Enabled nationwide program-level ROI analysis by integrating large, multi-source national datasets (100k+ records) from College Scorecard, FREOPP outcomes, and cost-of-living benchmarks using Python, SQL, and Excel.
- Implemented an ROI analytics framework computing 15+ metrics across repayment capacity, debt burden, and institutional financial outcomes.
- Validated repayment risk drivers through regression analysis in Python, quantifying relationships between debt-to-income burden, ROI under repayment constraints, and cost-of-living-adjusted income.
- Created charts and sensitivity analyses across key metrics and 4.99%–8.05% interest-rate scenarios using Excel models, SQL extracts and Power BI.

Defence Research and Development Organization (DRDO)

Oct 2022 – Jan 2023

Machine Learning Intern

New Delhi, India

- Built privacy-preserving NLP workflows using one-time and two-time pad encryption techniques for secure text processing.
- Developed a transformer-based summarization pipeline using Hugging Face and spaCy over 10k+ documents, achieving 0.85+ BERTScore.

PROJECTS

Secure Medical AI | *React, TypeScript, FastAPI, PostgreSQL, GCP, Docker, LangChain, FAISS, Redis*

- Built a secure clinical documentation platform using React/TypeScript + FastAPI with PostgreSQL-backed workflows (role-based access, note templates, scheduling) for structured note management.
- Implemented retrieval-augmented summarization and semantic search over clinical notes using LangChain + FAISS, and deployed on GCP (Cloud Run, Cloud SQL, Memorystore/Redis, Cloud Tasks) for scalable processing.

OmniShelf AI – Retail Shelf Intelligence | *YOLOv11, FastAPI, React, TypeScript, PostgreSQL*

- Built an end-to-end shelf intelligence system using FastAPI + React/TypeScript for planogram comparison and out-of-stock alerts, including an image-based product search feature where users upload a photo to return predicted aisle location, in-stock status, and price.
- Implemented a 3-stage CV pipeline (SKU-110K localization, YOLOv11 fine-tuned on Grozi-120 classification, automated vision verification) achieving 95.51% mAP@50 with 84.89% precision and 88.52% recall.

AWARDS & ACHIEVEMENTS

CalHacks 12.0

Oct 2025

Winner – Fetch.ai Track (InterViewAR)

San Francisco, CA

- Built InterViewAR, an immersive VR interview platform using WebXR with a FastAPI backend and real-time speech-to-text via Groq Whisper.
- Orchestrated Fetch.ai agent verse to drive interview flow and generate structured evaluation outputs, enabling real-time coaching feedback in VR.

LEADERSHIP

University of Colorado Boulder

2024 – Present

Chair – Data Science Student Association (DaSSA)

Boulder, CO

- Organize workshops and speaker events for the MS-DS cohort in collaboration with faculty and staff.