

NAMAN DALSANIA

github.com/namandalsania | linkedin.com/in/naman-dalsania | namandalsania12@gmail.com | +1 213-681-4183

EDUCATION

University of Southern California Masters in Applied Data Science Courses: Machine Learning, Data Mining, Predictive Analytics, Data Management, Research Methods & Analytics for User Studies, Fairness in AI, Natural Language Processing	Jan 2024 - Dec 2025 Los Angeles, CA
---	--

TECHNICAL SKILLS

Programming language: Python, SQL, SAS, MATLAB, Java, JavaScript ML/AI: TensorFlow, PyTorch, OpenCV, Apache Spark, Apache Hadoop, MapReduce	Web Technologies: React.js, Node.js, MongoDB, Django, Flask Tools: AWS, Tableau, LINUX, Power BI, Anaconda, SPSS, Excel, Git, Bash
--	---

EXPERIENCE & RESEARCH

Data Science Intern MLOps (MLflow), Data Orchestration (Databricks, ADF), Cloud Infrastructure (Azure ADLS)	Aug 2025 - Dec 2025
Kaiser Permanente	Pasadena, CA

- Orchestrated MLOps pipelines using **Azure Data Factory** and **Databricks**, automating the ingestion and transformation of skewed EHR data while establishing a standalone baseline using log-transformed targets and percentile binning.
- Engineered a Mixture-of-Experts framework within a CI/CD-driven MLflow lifecycle, implementing hybrid Gamma/Huber loss and isotonic calibration to isolate outliers and achieve a 15% weighted RMSE reduction in production-ready models.

Machine Learning Engineer Intern Systems Programming (C++, Rust), Cloud-Native AI (GCP, K8s), LangChain	May 2025 - Aug 2025
DataDirect Networks	San Francisco, CA

- Developed and optimized a C++-based NVIDIA's NIXL (NVIDIA Inference Xfer Library) plugin enabling RDMA-based GPU memory transfers with Infinia KV store, accelerating inference for vLLM, TensorRT, and SgLang on A100 and L4 GPUs.
- Designed async data flow logic, benchmarked LMCache-based LLM serving on Google Cloud Platform (GCP), and instrumented detailed traces using Perfetto, REDview, Heaptrack, and Hotspot to identify system-level bottlenecks.
- Built a Retrieval-Augmented Generation (RAG) pipeline supporting multi-file PDF ingestion, re-ranking, and LLM interaction using LangChain, FAISS, and NVIDIA NIM (NVIDIA Inference Microservices), with a shared knowledge base and streaming responses.

Research Assistant Tableau, Excel, Streamlit, Plotly	Jan 2025 - Dec 2025
USC Schaeffer Center for Health Policy & Economics	Los Angeles, CA

- Automated the processing of 15+ years of Medicare claims data to create **interactive Tableau dashboards**, accelerating policy reporting and supporting National Institute of Aging (NIA) presentations on geographic and demographic dementia cost disparities.
- Built a data-driven dashboard using Python, Streamlit, and Plotly to simulate public health policy interventions, visualizing the potential reduction in dementia and chronic diseases across the US population by integrating complex regression models into an intuitive user interface.

Research Assistant LLMs (BERT), PyTorch, CUDA, GPU Optimization	May 2024 - Dec 2024
USC Marshall School of Business	Los Angeles, CA

- Architected a low-latency NLP pipeline leveraging Hugging Face Transformers and a fine-tuned BERT architecture to transform unstructured voice inputs into structured financial ledgers with high-fidelity classification.
- Engineered high-performance inference optimizations on HPC nodes, implementing CUDA-based GPU parallelization to accelerate processing speeds by 60% and reduce inference latency by 40% for large-scale production workloads.

Data Science Intern OpenCV, OCR, API, Tableau	May 2024 - Aug 2024
FairView Capital	West Hartford, CT

- Architected a Computer Vision-driven OCR solution that streamlined financial reporting for investee funds, slashing manual overhead by 80% and significantly enhancing processing precision for high-stakes investment data.
- Streamlined cross-platform data synchronization by developing automated workflows via PitchBook's REST API, reducing analyst data-entry bottlenecks by 72% and ensuring real-time database accuracy within DealCloud.

PROJECTS

YelpBoost: Predictive Engine for User Ratings PySpark, Recommender Systems	Sep 2024 - Nov 2024
<ul style="list-style-type: none">Developed a hybrid XGBoost/CatBoost recommender on PySpark RDDs to predict Yelp user ratings.Engineered behavior-based features and applied dimensionality reduction techniques to improve prediction accuracy by 12%, ensuring full pipeline scalability using distributed Spark operations.	

Credit Card Approval Prediction using Classification Algorithms Python, Streamlit, Scikit-learn	Jun 2022 - Nov 2022
<ul style="list-style-type: none">Built a machine learning pipeline to evaluate credit card application decisions, using a Gradient Boosting Classifier with 84.2% accuracy and 0.90 Precision/Recall scores.Implemented a meta-learning framework across 10 predictive models and derived actionable business insights through univariate and bivariate analysis.	

POSITIONS OF RESPONSIBILITY

Business Team Associate, USC Racing	May 2024 - May 2025
<ul style="list-style-type: none">Led USC Racing's sponsorship, finance, and marketing efforts, boosting revenue and strengthening brand presence.	

Venture Scout, Pegasus Angel Accelerator	Mar 2024 - May 2024
<ul style="list-style-type: none">Worked with investors to assess startup pitches, offering strategic insights and strengthening due diligence.	