Umesh Gehlot

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SUMMARY

Master of Science candidate in Computer Science with deep expertise in Artificial Intelligence, Machine & Deep Learning, Algorithms, Data Structures and scalable software engineering. Proven experience building end-to-end ML pipelines, optimizing DSA-centric solutions, and shipping production-grade AI products. Passionate about R&D in LLMs, Computer Vision, MLOps, AI and mentoring cross-functional teams to deliver high-impact, data-driven systems.

CORE TECHNOLOGY STACK

Languages: Python, C++, Javascript, Rust, Go, TypeScript
AI/ML/DL: PyTorch , TensorFlow , JAX, Hugging Face, OpenCV, scikit-learn, XGBoost, LightGBM
DevOps: Docker, Kubernetes, Kubeflow, MLflow, Weights & Biases, GitHub Actions, CI/CD, Terraform, AWS SageMaker, GCP Vertex AI
Data & Streaming: PostgreSQL, MongoDB, Redis, Kafka
APIs & Deployment: FastAPI, Flask, Triton Inference Server, ONNX, TorchServe, Serverless (AWS Lambda), gRPC

PROJECTS

StockMarket Predictor – ML-based Price Forecasting
- Built ensemble model (Random Forest + XGBoost) on 5 years of S&P500 data achieving 85% trend prediction accuracy.
- Engineered features from historical prices and trading volumes using pandas and NumPy for time-series analysis.
- Created Flask web interface with interactive charts showing predictions vs actual stock performance.

TaskFlow – Full-Stack Task Management Application
- Built responsive frontend with TypeScript, React, and Tailwind CSS featuring drag-and-drop task boards and real-time updates.
- Developed RESTful API with Node.js, Express, and Prisma ORM, implementing authentication with JWT and bcrypt.
- Designed PostgreSQL database schema with optimized queries, achieving ¡ 100ms response time for all CRUD operations.

EDUCATION

Master of Science in Computer Science   Aug 2024 – Mar 2026
Mount Carmel College, Bangalore   *Advanced Data Science & AI*
- Thesis: "Agentic Self-Optimization(ASO): An Autonomous LLM Architecture for Recursive Self-Evaluation and Model Refinement"

Bachelor of Science in Computer Science   Aug 2021 – Mar 2024
Veer Narmad South Gujarat University, Surat
- Key Coursework: Design & Analysis of Algorithms, Operating Systems, Machine Learning, Linear Algebra, Probability

CERTIFICATIONS & ACHIEVEMENTS

Deep Learning Specialization – DeepLearning.AI —

TensorFlow Developer Certificate – Google —

AWS Certified ML – Specialty