

Nitesh Kumar

+917061474588 / erniteshace@gmail.com / linkedin.com/in/nitesh-kumar / [Github](https://github.com/erniteshace)

PROFESSIONAL SUMMARY

Machine Learning Engineer skilled in designing, training, and deploying scalable ML models. Proficient in Python, C++, TensorFlow, and Scikit-learn with hands-on experience in model optimization, API development (FastAPI, Flask), and cloud deployment on AWS. Strong background in MLops tools (MLflow, DVC, Docker, Kubernetes) and database management (SQL, MongoDB, PostgreSQL) for production-ready AI solutions.

EDUCATION

Arya college of Engineering, Jaipur, Rajasthan

CGPA:9.0

B.Tech CSE, Expected June 2026 (Computer Science and Engineering)

Data Structures & Algorithms, Statistics, Probability, Linear Algebra, Machine Learning, Artificial Intelligence

Data Mining, Data Visualization, Operating Systems, Database Management Systems (DBMS)

WORK EXPERIENCE

AI Developer Intern, Arkham Archives

- Developed and deployed deep learning models for classification, prediction, and computer vision tasks.
- Built generative AI models (LLMs, GANs, Transformers) for text and image generation.
- Implemented MLops practices with MLflow, DVC, Docker, and Kubernetes for efficient model lifecycle management.
- Collaborated with teams to integrate AI solutions into production systems and optimize performance.

Data Engineering Training, Regex Software

- Built data pipelines for batch and streaming workflows using Apache Spark and AWS Glue.
- Designed and optimized ETL workflows to ingest data from multiple sources into AWS S3 and AWS Redshift.
- Performed data transformation, cleaning, and aggregation using PySpark for scalable analytics.
- Gained hands-on exposure to big data architecture, distributed computing, and cloud data warehouses.

Data Analytics & Web Developer Intern, Coding Club India | 2.7 Lakh+ Followers on LinkedIn

- Built responsive web pages using HTML, CSS, JavaScript, and Bootstrap for seamless UX across devices.
- Created interactive dashboards with Pandas and Matplotlib, speeding up decisions by 15%.
- Developed REST APIs and optimized SQL queries to enable faster and efficient data retrieval.
- Increased website engagement by 30% and reduced bounce rate by 25% via A/B testing strategies.

PROJECTS

End-to-End FastAPI-based MLops Application for Food Delivery Time Prediction | [Github](https://github.com/erniteshace/Food-Delivery-Time-Prediction)

- Engineered a FastAPI MLops application delivering real-time food delivery predictions under 200ms.
- Achieved 99% reliability with Pydantic input validation and Pytest automated testing.
- Containerized and deployed on AWS EKS (Kubernetes), supporting 10x scaling under peak load.
- Integrated MLflow, DVC (S3), and SQLAlchemy to track 50+ model versions and datasets efficiently.

End-to-End MLops Implementation for YouTube Chrome plugin comment Sentiment Analysis | [Github](https://github.com/erniteshace/YouTube-Comment-Sentiment-Analysis)

- Implemented data and code versioning with DVC, ensuring reproducible workflows for 20+ ML projects.
- Tracked experiments and managed 50+ models with MLflow, streamlining the entire model lifecycle.
- Built a CI/CD pipeline to automate model training, testing, and deployment, reducing release time by 40%.
- Containerized ML models with Docker and served them via a Flask REST API handling 5K+ requests/day.

TECHNICAL SKILLS

- Programming & Databases: Python, C++, SQL
- Databases: MySQL, PostgreSQL, MongoDB
- Machine Learning & Deep Learning: Scikit-learn, TensorFlow/Keras, NLP (Natural Language Processing)
- MLops & Experiment Tracking: MLflow, DVC, CI/CD (GitHub Actions), Apache Airflow
- API Development & Frameworks: Flask, FastAPI, Pydantic, Pytest, SQLAlchemy
- Containerization & Orchestration: Docker, Kubernetes, AWS (EKS, S3)
- Monitoring & Logging: Prometheus, Grafana
- Version Control & Tools: Git, GitHub, VS Code

CERTIFICATIONS

Machine Learning Specialization and Python for Data Science – Coding Club India

HONORS AND AWARDS

- Solved 500+ algorithmic problems across LeetCode, HackerRank and InterviewBit.