

Nitesh Kumar

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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](#)

- 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](#)

- 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.