

Om Badade

AI/ML ENGINEER

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SUMMARY

AI/ML Engineer with 3+ years of experience designing, developing, and deploying data-driven solutions across healthcare, supply chain, manufacturing, and e-commerce domains. Proven track record in building predictive models, deep learning systems, and real-time analytics pipelines using Python, TensorFlow, PyTorch, PySpark, and cloud platforms (AWS, Azure). Skilled in MLOps, NLP, computer vision, and time-series forecasting, with expertise in integrating AI models into enterprise systems to optimize operations, reduce costs, and enhance decision-making. Adept at collaborating with cross-functional teams, ensuring regulatory compliance (HIPAA), and delivering measurable business impact through scalable, production-ready AI solutions.

SKILLS

Methodologies: SDLC, Agile/Scrum, Waterfall
Programming Languages: Python, R, Java, and C++
Machine Learning Frameworks: TensorFlow, PyTorch, Keras, and Scikit-learn
Deep Learning: CNNs, RNNs, LSTMs
Data Manipulation: Pandas, NumPy
Big Data Technologies: Hadoop, Spark, Apache Kafka
Natural Language Processing (NLP): NLTK, SpaCy, BERT, GPT-3, Transformer models
Cloud Platforms: Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform (GCP)
Model Deployment: Docker, Kubernetes, TensorFlow Serving
Version Control and Development Tools: Git, JIRA, Jenkins
Statistics and Mathematical Modelling: Statistical analysis, probability, and algorithm development

EDUCATION

Master of Science in Computer Science Illinois Institute of Technology, Chicago	May 2025
Bachelor of Engineering in Computer Engineering Savitribai Phule Pune University	May 2023

EXPERIENCE

Cardinal Health, IL AI/ML Engineer	Nov 2024 - Current
<ul style="list-style-type: none">Engineered AI-driven demand forecasting models using Python, TensorFlow, and Prophet to predict medical product demand across 50+ distribution centers, reducing stockouts by 18%.Built NLP-based document parsing pipelines with Hugging Face Transformers and spaCy to automate medical contract review, achieving a 70% reduction in manual processing time.Designed and deployed anomaly detection algorithms in AWS SageMaker to monitor cold-chain logistics for temperature-sensitive pharmaceuticals, reducing spoilage incidents by 22%.Developed predictive maintenance models for warehouse automation systems using PySpark and AWS Lambda, improving equipment uptime by 15%.Implemented a real-time supply risk scoring system by integrating shipment tracking, supplier reliability, and market data into a Snowflake analytics dashboard, improving risk response time by 35%.Collaborated with compliance teams to embed HIPAA-compliant ML workflows, ensuring secure handling of patient-related supply chain data during model training and inference.	
Infinite Infolab, India AI/ML Engineer	Jan 2021 - July 2023
<ul style="list-style-type: none">Led the design of an AI-powered customer segmentation platform using K-Means, XGBoost, and PostgreSQL, enabling targeted marketing campaigns that boosted client conversion rates by 27%.Developed deep learning computer vision models (YOLOv5, OpenCV) for defect detection in manufacturing images, reducing inspection time by 60% while improving accuracy.Built recommendation systems with collaborative filtering and matrix factorization in PySpark to personalize e-commerce product suggestions, increasing average order value by 12%.Created real-time sentiment analysis pipelines for social media monitoring using Kafka, FastAPI, and BERT models, helping clients respond to PR risks within minutes.Deployed time-series forecasting solutions in Azure ML to optimize inventory planning for retail clients, reducing excess stock by 20%.Architected an end-to-end MLOps pipeline with Docker, Kubernetes, and MLflow, enabling reproducible model training, CI/CD deployment, and version control for 15+ production ML models.Collaborated with cross-functional teams to integrate AI models into ERP and CRM systems via RESTful APIs, improving operational efficiency across finance, logistics, and sales functions.	

CERTIFICATIONS

Building Conversational AI Applications by Nvidia
Building Transformer-Based Natural Language Processing Applications by Nvidia